

Climatological Data for October, 1909.
DISTRICT NO. 6, MISSOURI VALLEY.

J. WARREN SMITH, District Editor.

GENERAL CLIMATOLOGICAL CONDITIONS.

The mean temperature during October was generally below the normal in the lower Missouri Valley, and above the normal in the central and western parts of this district. The precipitation was deficient in nearly all parts of the district.

The temperature reached 101° in Nebraska and over 90° in all of the States except Wyoming and Montana. The minimum was zero in Nebraska and was below 10° in all of the States except Iowa, Kansas, and Missouri.

The first killing frost of the season in southeastern South Dakota, southern and eastern Nebraska, western Iowa, and most of Missouri and Kansas, occurred on the 11th to 13th.

A trace of snow fell in most central and eastern parts of the Missouri Valley on the 11th or 12th. The section director for Iowa reports that the date is much earlier than usual for the first snowfall. In the mountain sections the snowfall during the month was from 2 inches to over 1 foot. The greatest fall reported was 17.5 inches at Corona, Grand County, Colo., at an elevation of 11,660 feet above sea level. At Lake Hotel in the Yellowstone National Park the snowfall was 15.5 inches.

The prevailing wind was from the southeast in Iowa, south in Kansas, southwest in Missouri, west in Colorado, Wyoming, and Montana, and from the northwest in North Dakota, South Dakota, and Nebraska. The average sunshine was less than the normal for the month in the southeastern part of this district, but there was abundant sunshine in the northwestern States.

The month was unusually mild and pleasant in Wyoming, and there was an absence of unusually high or low temperatures. While the temperature averaged above the normal, the extreme maximum was as low as any extreme maximum for October for the last ten years. There was no severe storm during the month. The precipitation was the lowest, with the exception of 1907, of any October during the last nineteen years. There was a high percentage of sunshine during the month. Thunderstorms occurred over much of the State on the 4th, 5th, 6th, and 7th. The highest temperature was 85° at Moorcroft on the 2d and Phillips on the 3d, and the lowest was 4° at Fountain Hotel, Yellowstone National Park, on the 8th. The greatest monthly rainfall was 1.59 inches, while at several stations there was no precipitation, or only a trace. The greatest rainfall in any twenty-four consecutive hours was 0.80 inch. The greatest snowfall was 15.5 inches at Lake Hotel, Yellowstone National Park.

The month was notable in Montana for continuous mild temperature and deficient precipitation. Minimum temperatures below zero and maximum above 90° occur occasionally during October, but for this month the lowest recorded in this State was 2° and the highest 89°. The precipitation was deficient in all parts of the State. In some localities it was the driest October for several years, but for the State as a whole, it was not so dry as the corresponding month in 1907. In the mountain districts within the Beaverhead, Madison, Gallatin, and upper Yellowstone basins the total precipitation was generally in excess of 1 inch. The averages for the various sub-drainage basins were approximately as follows: Marias, 0.14 inch; Milk River, 0.31 inch; Sun River, 0.22 inch; Musselshell, 0.59 inch; Jefferson, 0.63 inch; Madison, 1.16 inches; Gallatin, 1.00 inch; Big Horn, 0.14 inch; Tongue River, trace; Powder River, trace; Yellowstone, 0.59 inch. Owing to the mild temperatures a smaller percentage of the precipitation than usual, even at comparatively high elevations, fell as snow, and the month closed with little snow visible below 6,000 feet altitude. The greatest monthly precipitation was 1.71 inches, and the

greatest amount in twenty-four hours was 1 inch. The greatest monthly snowfall was 7.2 inches.

Nearly normal weather conditions obtained throughout that portion of North Dakota that is in this district. The temperature averaged less than 1° below the normal. The highest temperature was 91° and the lowest 4°. The precipitation was unevenly distributed both geographically and throughout the month. The average rainfall was about one-fourth inch below the normal. The greatest monthly rainfall was 1.23 inches, and the greatest fall in twenty-four hours was 1.14 inches. The average depth of snowfall during the month was nearly one inch. The greatest snowfall was 4.2 inches. No severe storms or winds of a damaging character were reported during the month. There was an abundance of sunshine.

In South Dakota the weather was, on the whole, favorable for all outdoor work. In a number of southern counties the first severe or killing frost did not occur until the early part of the second decade, too late to cause any damage. The mean temperature for the State was about the normal. The maximum temperature was 95° and the minimum 7°. The average precipitation for the several valleys was: Missouri, 1.29 inches; James, 1.74 inches; Big Sioux, 1.67 inches; Cheyenne, 0.85 inch. It was practically normal for the State. The greatest monthly precipitation was 3.24 inches, and the greatest amount in twenty-four hours, 2.10 inches. Only a trace of rain fell at Ashcroft in the Little Missouri River Valley. About the usual number of thunderstorms occurred, principally in the first decade. Light snow, melting as it fell or soon after, occurred at a number of places, but principally in the more elevated portions of the Black Hills. The average hourly velocity of the wind, determined from the records of the regular Weather Bureau stations, was 10.2 miles per hour, and the average total movement for the month was 7,632 miles. There was somewhat more than the usual amount of sunshine in the western counties; elsewhere it was about the normal.

The month was somewhat cooler and much drier than the normal in Minnesota. The sunshine was slightly below the normal.

The month was warm and dry in Colorado. The average temperature for that part of the State that is in District No. 6 was 48.5°, or 1.4° above the normal. The first week was unusually warm, but from the 7th to the 9th the temperature fell rapidly and killing frost was general on the morning of the 9th. The highest temperature was 91° and the lowest 4°. The precipitation in this part of the district was 0.50 inch and was 0.56 inch below the normal. Practically all the precipitation occurred between the 3d and 9th; no rain of importance fell from the 10th to the 30th. The heaviest precipitation was 1.35 inches, and the greatest fall in twenty-four hours, 1.35 inches. The greatest snowfall was 17.5 inches. For the State as a whole the sunshine was about normal. The relative humidity was practically normal in the northeastern counties and above the normal in the Arkansas Valley. The wind movement was slightly above the normal in all localities.

In Nebraska the mean temperature was near the normal, while the precipitation was about half an inch below the normal. The deficiency in rainfall was slightly more than half an inch in the Niobrara, Missouri, Loup, and Blue River drainage areas while it was decidedly less than half an inch in the upper Platte and Republican river valleys. Most of the rainfall occurred in the rain period extending from the 7th to 11th and on the 31st. The highest temperature was 101° at Beaver City on the 2d; the lowest was 0° at Gordon and Hillside, on the 12th. The greatest precipitation was 4.02 inches, and the greatest

fall in twenty-four hours was 3.06 inches. The first killing frost of the season in the southern and eastern counties occurred from the 11th to 13th. The average wind velocity, as determined from the records of four regular Weather Bureau stations in the State, was 10 miles per hour, which is about 0.3 mile above the average velocity for the past fifteen years. The greatest snowfall was 2.5 inches. About the average number of clear and cloudy days was experienced.

The mean temperature for the month was slightly below the normal in Iowa, while the precipitation was generally below the normal over the northern two-thirds of the State, and above the normal over the southern third. The highest temperature was 92° and the lowest 10°. During the past nineteen years there have been five cooler Octobers in this State, but there are no records of as low temperatures during the first fifteen days of October as was registered this month on the 12th and 13th. The rainfall was general on the 8th to 12th, and the 20th to 23d. Light snow flurries occurred on the 11th and 12th, which is much earlier than usual for the first snow of the season. The heaviest precipitation was 4.70 inches, and the greatest amount in twenty-four hours was 1.98 inches.

The month in Kansas was cool and dry, with the percentage of sunshine below the normal. The highest temperature reported was 96° and the lowest 14°. The minimum temperatures occurred on the 12th and the first killing frost of the season was reported from all stations on that date. The precipitation was generally below the normal in all the river valleys. The heaviest monthly precipitation was 3.49 inches, and the greatest amount in twenty-four hours 2.47 inches. A trace of snow occurred over much of the State on the 11th.

In Missouri the mean temperature was generally below the normal in the northern counties and above in the southern. During the first decade the daily temperature averaged about 8° above the normal, but during the second decade it was about 10° below the normal. The highest temperature was 96° and the lowest 21°. The first general killing frosts occurred on the mornings of the 12th and 13th. The precipitation was above the normal over most of the Osage, Grand, and Chariton watersheds and below the normal in most of the Meramec and Gasconade watersheds. The greatest monthly precipitation was 5.53 inches at Avalon, Livingston County, and the greatest fall in twenty-four hours was 2.57 inches. Snow flurries occurred quite generally on the 11th.

RIVERS.

On account of the light precipitation most of the rivers in the district were somewhat lower than the usual October stage. At St. Louis the Mississippi River averaged 6.0 feet, while the average for October for the past eighteen years is 7.7 feet.

MISCELLANEOUS.

The weather conditions were favorable for agricultural, engineering, and general outdoor work, except that in parts of the James and Big Sioux river valleys in South Dakota, rain in the latter part of the first decade temporarily interrupted some field and construction work. In the valleys in Montana the precipitation nearly all fell as rain, and its distribution throughout the month was favorable for agricultural interests, especially dry farming, since it fell in such light amounts as to be fully absorbed and stored in the soil.

The sharp fall of temperature at the beginning of the second decade caused some damage to unharvested agricultural products, especially in Montana, North Dakota, and Iowa. In Iowa the ground was frozen to such an extent that potatoes remaining in the ground were considerably damaged. Over the southern portion of the State thousands of bushels of apples were frozen on the trees. While corn was ripe, it was not dry enough to withstand such a severe freeze as occurred without injury to its germinating qualities. Although the precipitation was generally below the normal it was sufficient for fall plowing and the germination of winter grains.

Prairie fires occurred in several counties in South Dakota and caused some damage. Forest fires passed over a considerable area of the Black Hills Forest Reserve in this State.

During the irrigation season at the Garden City Reclamation Project in Kansas, which closed September 30, the pumping plant was operated ninety-six days and seven hours. The amount of water pumped during this time was 7,555 acre-feet, while there were used from the Arkansas River 11,000 acre-feet during the irrigation season.

At the Nebraska-Wyoming North Platte Project the total amount of water turned into the irrigation canal during the season was 230,382 acre-feet. Of this 141,666 acre-feet were used in irrigation, 5,683 acre-feet wasted at the end of the canal into the reservoir, and 83,033 acre-feet lost by seepage and evaporation in the main canal and lateral systems. The seepage and evaporation, therefore, amounts to 36 per cent of the quantity of water entering the canal.

At the Montana-North Dakota lower Yellowstone Project water was turned out of the main canal October 11, practically closing the irrigation season. At the South Dakota Belle Fourche Project the delivery of water for irrigation was discontinued the first of the month. At the Wyoming Shoshone Project the farmers have been engaged in fall irrigating and the canals have been delivering about as much water as during the summer months.

A class in irrigating in the University of Missouri constructed a weir on Grindstone Creek, 1½ miles southeast of Columbia, during the month. The weir will be used to measure the flow of water in the creek.

TABLE 1.—Climatological data for October, 1909. District No. 6, Missouri Valley.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | Precipitation, in inches. | | | | Sky. | | | | Prevailing wind direction. | Observers. | | | | | |
|-----------------------------------------------|-------------------------|------------------|------------------------|-------------------------------------|----------------------------|----------|----------------|---------------------------|-----------------|-----------------------|--------|----------------------------|-----------------------|-------------------------|-----------------------|----------------------------|-------------------------------|------------------------|------------------|---------------------------|------------------|----------------|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmeted. | Number of rainy days. | .01 inch or more. | Number of partly cloudy days. | Number of cloudy days. | | | | |
| <i>Wyoming.</i> | | | | | | | | | | | | | | | | | | | | | | |
| Arapahoe | Fremont | 5,500 | 4 | | | | | | | | 0.24 | | 0.11 | 4 | 6 | 19 | 6 | sw. | David Mallory. | | | |
| Barnum | Johnson | 3,856 | 10 | 46.6 | - 0.4 | 76 | 51 | 20 | 31 | 46 | 0.99 | - 0.34 | 0.00 | 4.0 | 3 | 17 | 5 | w. | Thos. Freeguard. | | | |
| Basin | Big Horn | | | | | | | | | | 0.15 | | 0.11 | 2 | 24 | 4 | 3 | nw. | O. J. Robertson. | | | |
| Bonnett | Carbon | | | | | | | | | | 0.15 | | 0.11 | 2 | 24 | 6 | 1 | w. | Chas. C. Young. | | | |
| Cheyenne | Laramie | 6,038 | 33 | 46.4 | + 1.3 | 77 | 2 | 19 | 9 | 43 | 0.28 | - 0.44 | 0.19 | 2.0 | 5 | 13 | 14 | 4 | nw. | U. S. Weather Bureau. | | |
| Cheyenne Exp. Farm | do | 6,000 | 8 | 44.7 | | 80 | 17 | 10 | 23 | 57 | 0.54 | | 0.14 | 1.5 | 5 | 24 | 7 | 0 | w. | Irrigation Inves. Office. | | |
| Chugwater | do | 5,282 | 8 | 44.7 | | 73 | 26 | 18 | 34 | 39 | 0.25 | | 0.16 | T. | 4 | 12 | 14 | 5 | n. | George Milne. | | |
| Clark | Big Horn | 4,320 | 4 | 49.8 | | 75 | 2 | 15 | 18 ⁺ | 47 | 0.25 | | 0.16 | T. | 3 | 14 | 10 | 6 | nw. | Chas. A. C. Snow. | | |
| Crystal Lake Reservoir ^b | Laramie | 6,900 | 4 | 46.3 | | 83 | 2 | 22 | 9 | 39 | 0.75 | | 0.16 | T. | 2 | 18 | 13 | 0 | w. | L. E. Jenson. | | |
| Douglas | Converse | 4,793 | 51.4 | | | 71 | 2 | 14 | 23 | 50 | 0.27 | | 0.16 | T. | 0 | 27 | 3 | 0 | n. | Henry C. Miller. | | |
| Dubois | Fremont | 6,009 | 3 | 42.4 | | 80 | 28 | 27 | 11 | 39 | 0.14 | | 0.14 | T. | 0 | 26 | 3 | 2 | n. | Dr. F. H. Welty. | | |
| Eaton's Ranch ^a | Sheridan | 4,600 | 4 | 49.4 | | | | | | | | | | T. | | | | | | M. R. Hunter. | | |
| Echeta | Crook | | | | | | | | | | | | | | | | | | | Wm. Richardson. | | |
| Elk Mountain | Carbon | | | | | | | | | | | | | | | | | | | U. S. Forest Service. | | |
| Encampment ^b | do | 7,323 | 46.4 | | | 73 | 2 | 13 | 9 | 41 | 0.01 | | 0.01 | T. | 1 | 18 | 9 | 2 | sw. | Frank Jameson. | | |
| Ervay | Natrona | | | | | 74 | 3 | 16 | 8 ⁺ | 38 | 0.77 | | 0.37 | 0.0 | 3 | 21 | 6 | 4 | sw. | Jas. Dougherty. | | |
| Filmore | Albany | 7,527 | 3 | | | | | | | | | | | | | | | | | John Hunton. | | |
| Fort Laramie | Laramie | 4,270 | 32 | | | | | | | | | | | | | | | | | S. D. Perry. | | |
| Gillette | Crook | 4,546 | 3 | 49.8 | | 81 | 5 | 19 | 18 | 40 | 0.09 | | 0.09 | T. | 1 | 20 | 9 | 2 | sw. | August Hettlinger. | | |
| Granite Canyon | Laramie | 7,337 | 45.0 | | | 72 | 4 | 17 | 22 | 48 | 0.28 | | 0.10 | 1.0 | 6 | 22 | 6 | 3 | w. | Wm. Boyce. | | |
| Hunter's Station | Johnson | 8,000 | 3 | 39.8 | | 70 | 3 | 10 | 12 | 43 | 0.45 | | 0.16 | 5.0 | 5 | 24 | 4 | 3 | w. | Wm. Booth. | | |
| Hyattville | Big Horn | 8,632 | 10 | 48.2 | + 0.8 | 78 | 2 | 23 | 9 ⁺ | 44 | 0.15 | | 0.11 | 1.3 | 2 | 21 | 4 | 6 | sw. | Henry D. Schoonmaker. | | |
| Independence | Natrona | | | | | 46.3 | | 14 | 22 ⁺ | 56 | 0.15 | | | | | | | | | A. Grigg. | | |
| Kaycee | Johnson | | | | | | | | | | | | | | | | | | | D. M. Zum Brunnen. | | |
| Kirtley | Converse | 5 | 47.1 | | | 78 | 3 ⁺ | 13 | 12 | 46 | 0.28 | | 0.28 | T. | 1 | 25 | 2 | 4 | sw. | C. L. Tewksbury. | | |
| Kirwin | Big Horn | 9,187 | 1 | 37.1 | | 59 | 2 | 8 | 32 | 62 | 0.62 | | 0.30 | 1.2 | 3 | 19 | 11 | 1 | w. | G. A. Knowles. | | |
| Knowles | Crook | | | | | | | | | | | | | | | | | | | U. S. Weather Bureau. | | |
| Lander | Fremont | 5,372 | 17 | 45.0 | + 2.9 | 78 | 3 | 16 | 8 | 49 | 0.55 | - 0.50 | 0.31 | 4.5 | 4 | 9 | 20 | 2 | sw. | University of Wyoming. | | |
| Laramie | Albany | 7,188 | 14 | 44.4 | + 2.6 | 75 | 3 | 15 | 9 ⁺ | 55 | 0.50 | - 0.26 | 0.16 | 0.9 | 5 | 15 | 16 | 0 | nw. | C. A. Cowdin. | | |
| Leo ^a | do | 6,878 | 8 | 43.8 | + 1.7 | 75 | 3 | 10 | 8 | 48 | 0.13 | - 0.55 | 0.10 | 0.8 | 3 | 11 | 7 | 9 | w. | Mary E. Painter. | | |
| Lolabama Ranch | Big Horn | 7,052 | 6 | 40.4 | | 65 | 27 | 13 | 23 | 49 | 0.71 | | 0.33 | 3.0 | 4 | 15 | 14 | 2 | w. | R. Fred Harrison. | | |
| Lovell | do | | | | | 46.9 | | 76 | 47 | 19 | 18 | | 0.13 | 0.0 | 2 | 23 | 4 | 4 | n. | D. E. Goddard. | | |
| Lusk | Converse | 5,007 | 19 | 44.9 | + 0.3 | 80 | 1 | 14 | 11 | 49 | 0.00 | - 0.61 | 0.00 | 0.0 | | | | | | Henry D. Colburn. | | |
| Luther | Laramie | | | | | | | | | | | | | | | | | | | C. A. Sherman. | | |
| Manville | Converse | 5,050 | | | | | | | | | | | | | | | | | | Edwin Moore. | | |
| Moorecroft | Crook | 4,211 | 6 | 44.6 | | 85 | 2 | 9 | 10 ⁺ | 52 | 0.00 | | 0.00 | 0.0 | 2 | 22 | 0 | 0 | | Dr. S. W. Johnson. | | |
| Moore | Albany | 6,000 | 8 | 47.9 | + 1.7 | 75 | 21 | 15 | 12 | 54 | 1.22 | + 0.33 | 1.16 | 1.0 | 5 | 5 | 10 | 6 | w. | U. S. Reclamation Service | | |
| Newcastle | Weston | 4,319 | | | | | | | | | | | | | | | | | | Mrs. Arthur Rugg. | | |
| Pathfinder | Natrona | 5,735 | 3 | 47.6 | + 0.7 | 81 | 6 | 22 | 25 | 43 | 0.70 | - 0.08 | 0.38 | 1.9 | 2 | 23 | 7 | 1 | w. | C. W. Johnson. | | |
| Phillips | Laramie | 4,900 | 6 | 48.9 | | 85 | 3 | 18 | 14 | 44 | 0.08 | | 0.06 | 0.6 | 1 | 18 | 10 | 3 | nw. | U. S. Reclamation Service | | |
| Pine Bluff | do | 5,038 | | | | | | | | | | | | | | | | | | U. S. Army. | | |
| Powell | Big Horn | 4,376 | 2 | 46.8 | | 74 | 3 | 20 | 12 | 44 | 0.04 | | 0.04 | 0.0 | 1 | 13 | 17 | 1 | w. | U. S. Reclamation Service | | |
| Riverton ^b | do | | | | | 46.8 | | 80 | 4 | 11 | 23 | 51 | 0.07 | | 0.07 | T. | 1 | 18 | 1 | nw. | Robert P. Quest. | |
| Saratoga | Carbon | 7,300 | 12 | 45.0 | + 1.5 | 75 | 21 | 13 | 9 | 49 | 0.26 | - 0.79 | 0.18 | 0.2 | 3 | 17 | 10 | 4 | ne. | Supt. S. & E. R. R. | | |
| Sheridan (1) | Sheridan | 3,700 | 14 | 45.6 | + 0.8 | 79 | 28 | 18 | 13 | 53 | 0.36 | - 0.43 | 0.22 | T. | 5 | 13 | 11 | 7 | nw. | U. S. Weather Bureau. | | |
| Sheridan (2) | do | 3,738 | 4 | 46.6 | + 1.8 | 78 | 5 | 18 | 25 | 54 | 0.18 | - 0.81 | 0.10 | 0.0 | 2 | 14 | 15 | 3 | nw. | Geo. Brundage. | | |
| Shoshone Dam | Big Horn | 5,385 | 3 | 50.2 | | 78 | 4 | 19 | 8 | 47 | 0.26 | | 0.12 | 1.3 | 5 | 19 | 10 | 2 | w. | U. S. Reclamation Service | | |
| Soldiers' Home | Johnson | 4,635 | 17 | 49.6 | + 2.8 | 78 | 28 | 20 | 18 | 46 | 0.14 | - 0.29 | 0.12 | 0.2 | 2 | 12 | 14 | 5 | nw. | Geo. L. Courtney. | | |
| South Pass City | Fremont | | | | | 38.8 | | 68 | 2 | 6 | 31 | 45 | 0.40 | | 0.21 | T. | 3 | 20 | 10 | 1 | sw. | John Sherlock. |
| Thermopolis | do | | | | | 43.6 | | 78 | 21 | 16 | 30 | 53 | 0.44 | | 0.34 | 0.5 | 3 | 25 | 4 | 2 | sw. | A. L. Dubig. |
| Upton | Weston | | | | | | | | | | | | | | | | | | | G. E. McPherrin. | | |
| Valley | Big Horn | 6,500 | | | | | | | | | | | | | | | | | | Jas. L. McLaughlin. | | |
| Verona | Sheridan | | | | | | | | | | | | | | | | | | | O. A. Roode. | | |
| Wiley | Big Horn | 5,375 | 47.2 | | | 75 | 4 | 20 | 8 | 39 | 0.27 | | 0.56 | | | | | | | C. D. Marshall. | | |
| Wyncote | Laramie | 4,207 | 2 | 48.6 | | 81 | 5 | 15 | 12 ⁺ | 53 | 0.53 | | T. | 0.0 | 0 | 18 | 10 | 3 | nw. | U. S. Reclamation Service | | |
| Yellowstone Park | National Park | 6,200 | 22 | 42.2 | + 0.7 | 66 | 3 | 16 | 8 | 38 | 0.34 | - 0.80 | 0.11 | 0.2 | 7 | 6 | 14 | 11 | sw. | U. S. Weather Bureau. | | |
| (1) Fountain | do | | | | | 36.4 | | 65 | 2 | 4 | 8 | 44 | 0.04 | | 0.32 | 3.5 | 6 | 18 | 5 | s. | U. S. Army. | |
| (2) Grand Canon | do | | | | | 33.6 | | 61 | 3 | 10 | 22 | 39 | 0.53 | | 0.20 | 4.5 | 4 | 14 | 4 | ne. | Do. | |
| (3) Lake Hotel | do | 7,733 | 5 | 35.8 | | 62 | 2 | 5 | 8 | 43 | 1.33 | | 0.40 | 15.5 | 8 | 18 | 1 | 12 | s. | Do. | | |
| (4) Norris Geyser | do | 7,525 | 3 | 36.0 | | 66 | 2 | 10 | 8 | 47 | 0.58 | | 0.30 | 5.7 | 5 | 12 | 5 | 14 | w. | Do. | | |
| (5) Riviera ^b | do | 6,500 | 3 | 35.8 | | 69 | 3 | 10 | 4 ⁺ | 53 | 0.83 | | 0.16 | 1.6 | 8 | 14 | 12 | 5 | sw. | Do. | | |
| (6) Soda Butte | do | 7,000 | 4 | 38.2 | | 67 | 27 | 8 | 3 | 49 | 0.84 | | 0.40 | 6.4 | 14 | 11 | 6 | sw. | Do. | | | |
| (7) Sylvan Pass | do | 7,000 | 2 | 38.2 | | 62 | 27 | 15 | 21 | 41 | 1.59 | | 0.80 | 11.0 | 4 | 17 | 8 | 6 | sw. | Do. | | |
| (8) Thumb | do | | | | | 37.2 | | 63 | 9 | 8 | 49 | 0.39 | | 0.55 | 13.0 | 4 | 12 | 1 | n. | Do. | | |
| (9) Tower Falls ^a | do | | | | | 40.0 | | 68 | 31 | 9 | 8 | 49 | 0.32 | | 0.10 | 8 | 11 | 12 | 4 | sw. | Do. | |
| (10) Upper Basin | do | 7,395 | 5 | 35.4 | | | | 9 | 8 | 8 | 0 | 0.70 | | 0.30 | 7.0 | 3 | 23 | 0 | 8 | sw. | Do. | |
| Adams | Dawson | | | | | 1 | 44.7 | | 81 | 4 | 6 | 12 | 38 | 0.02 | | 0.02 | 0.0 | 12 | 10 | 9 | nw. | W. B. Dennis. |
| Adel | Cascade | 5,200 | 11 | 44.6 | | 73 | 3 | 21 | 30 | 43 | 0.69 | - 0.41 | 0.23 | 0.30 | 5 | 14 | 5 | 12 | | | | |

TABLE 1.—Climatological data for October, 1909. District No. 6—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | | | Sky. | Prevailing wind direction. | Observers. | | |
|------------------------|----------------|------------------|------------------------|-------------------------------------|----------|-----------------|-----------------|-----------------|-----------------------|---------------------------|----------------------------|-----------------------|-------------------------|-------------------|-----------------------|-------------------------------|----------------------------|-------------------------|---------------------------|--------------------------|
| | | | | Mean. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmeted. | .01 inch or more. | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | | |
| Montana—Cont'd. | | | | | | | | | | | | | | | | | | | | |
| Cut Bank. | Teton. | 3,700 | 11 | 45.3 ^b | + 3.7 | 74 ^b | 3 | 14 ^b | 18 | T. | - 0.89 | T. | 0.0 | 0 | 17 ^b | 7 | 5 | w. | Chas. N. Thomas. | |
| Decker. | Rosebud. | 3,400 | 5 | 48.4 | | 75 | 23 | 23 | 9 | 45 | 0.00 | 0.00 | 0.0 | 0 | 18 | 4 | 9 | w. | Adam Anderson. | |
| Deep Creek. | Broadwater. | 4,200 | | | | | | | | | 0.45 | 0.20 | 0.0 | 4 | 13 | 16 | 2 | w. | Mrs. D. W. Maryott. | |
| Delphine. | Meagher. | 5,000 | | | | | | | | | 0.12 | 0.05 | 1.3 | 4 | 13 | 2 | 4 | nw. | Tracy L. Holliday. | |
| Denton. | Fergus. | 5,147 | 2 | 44.8 ^a | | 74 ^a | 3 | 19 ^a | 31 | 41 ^a | 0.32 | 0.33 | 0.0 | 1 | 25 | 2 | 4 | nw. | R. M. Chamberlain. | |
| Dillon. | Beaver Head. | 5,147 | 13 | 51.5 | + 5.1 | 80 | 14 ^t | 23 | 21 ^t | 51 | 0.57 | - 0.29 | 0.23 | T. | 7 | 16 | 8 | sw. | J. E. Monroe. | |
| Dirty Creek. | Meagher. | 6,000 | | | | | | | | | 0.26 | 0.15 | 0.6 | 7 | 20 | 7 | 4 | w. | Lewis Cameron. | |
| Dry Creek. | Broadwater. | 5,500 | | | | | | | | | 1.05 | 0.27 | 2.5 | 12 | 12 | 5 | 14 | nw. | J. C. Stuart. | |
| Dry Wolf Camp. | Cascade. | 6,000 | | | | | | | | | 0.69 | 0.41 | 2.6 | 5 | 11 | 4 | sw. | Mrs. R. J. Eveleth. | | |
| East Gallatin River. | Gallatin. | 6,300 | | | | | | | | | 1.45 | 0.42 | 2.5 | 7 | 20 | 6 | 5 | w. | John Eberhart. | |
| Ekalaka. | Custer. | 8,576 | 8 | 47.2 | | 83 | 4 ^t | 4 | 12 | 40 | 0.26 | 0.10 | T. | 5 | 11 | 4 | 5 | n. | W. Fresser. | |
| Elkhorn. | Jefferson. | 4,900 | | | | | | | | | | | | | | | | sw. | J. W. Skelton. | |
| Fallon. | Cascade. | 2,208 | 5 | 46.2 | | 85 | 3 | 2 | 12 | 77 | T. | | T. | 0.0 | 0 | 20 | 6 | 5 | w. | H. Thrasher. |
| Family. | Teton. | 3,950 | 1 | | | | | | | | | | | | | | | | Mrs. A. C. Gifford. | |
| Fish Creek. | Silver Bow. | 8,500 | | 38.8 | | 56 | 27 | 10 | 9 | 27 | 1.09 | 0.52 | 7.2 | 4 | 7 ^a | 8 | 15 | w. | U.S. Reclamation Service | |
| Fish Tail Creek. | Carbon. | 5,000 | | | | | | | | | 1.29 | 0.88 | T. | 5 | 18 | 9 | 6 | w. | O. B. Tilton. | |
| Flathead Creek. | Gallatin. | 6,000 | | | | | | | | | 1.71 | 0.39 | 3.5 | 6 | 4 | 23 | 4 | nw. | O. E. Haskin. | |
| Forsyth. | Rosebud. | 2,514 | 3 | 49.7 | | 88 | 29 | 13 | 12 | 52 | T. | 0.0 | 0 | 11 ^a | 19 | 0 | | L. G. Brown. | | |
| Fort Benton. | Chouteau. | 2,630 | 30 | 49.6 | + 2.1 | 80 | 4 | 30 | 27 | 40 | 0.35 | - 0.26 | 0.0 | 1 | 21 | 10 | 0 | sw. | Thos. M. Patterson, jr. | |
| Fort Shaw. | Cascade. | 3,500 | 21 | 46.6 | + 0.2 | 75 | 3 | 18 | 18 | 48 | 0.25 | - 0.29 | 0.21 | T. | 2 | 8 | 19 | 4 | sw. | River Observer. |
| Fort W. H. Harrison. | Lewis & Clark. | 4,004 | 6 | 45.6 | | 73 | 3 | 23 | 31 | 40 | | | | | | 19 | 12 | 0 | sw. | U.S. Reclamation Service |
| Foster. | Yellowstone. | 1 | 47.2 | | | 82 | 5 | 13 | 12 | 58 | 0.14 | 0.12 | 0.0 | 3 | 18 | 8 | 5 | nw. | Post Hospital. | |
| Garnett. | Fergus. | 5,500 | 1 | | | | | | | | 0.48 | 0.09 | 0.89 | 2 | 22 | 6 | 3 | w. | E. K. Bowman. | |
| Glendive. | Dawson. | 2,069 | 20 | 44.4 ^b | - 3.3 | 89 | 1 | 4 ^t | 12 | 44 ^c | T. | - 0.89 | T. | 0.0 | 0 | 18 | 6 | 7 | nw. | J. E. Scally. |
| Goldbutte. | Chouteau. | 4 | 43.6 | | | 73 | 3 | 15 | 30 | 46 | 0.43 | 0.30 | T. | 3 | 11 | 17 | 3 | sw. | W. B. Walker. | |
| Graham. | Custer. | | | | | | | | | | | | | | | | | J. T. Berthelote. | | |
| Grayling. | Gallatin. | 6,700 | 6 | 36.7 ^b | | 65 ^b | 12 | 11 ^b | 8 | 49 ^b | 0.61 | 0.42 | T. | 3 | 11 ^b | 9 | 9 | w. | J. S. Rue. | |
| Great Falls. | Cascade. | 3,350 | 18 | 48.9 | + 0.3 | 78 | 9 | 26 | 18 | 42 | 0.48 | - 0.09 | 0.22 | 0.0 | 3 | 18 | 12 | 1 | sw. | P. Kerzenmacher. |
| Half Moon Pass. | Fergus. | 6,500 | | | | | | | | | 1.19 | 0.80 | 2.5 | 4 | 2 | 26 | 3 | w. | S. H. Bauman. | |
| Half Way House. | Broadwater. | 6,000 | | | | | | | | | 1.10 | 0.22 | 0.7 | 11 | 15 | 11 | 2 | ne. | Thos. Stigen. | |
| Harlowton. | Meagher. | 4,185 | 2 | 45.5 ^b | | 81 ^t | 3 | 14 ^t | 12 | 53 | 0.00 | 0.00 | 0.0 | 0 | 5 ^t | 9 | 11 | w. | Gordon Deans: | |
| Hassel. | Broadwater. | 5,200 | | | | | | | | | 0.14 | 0.08 | 0.0 | 3 | 0 | 31 | 0 | nw. | Jos. Muir. | |
| Havre. | Chouteau. | 2,505 | 29 | 45.6 | + 2.0 | 77 | 3 | 16 | 12 | 47 | 0.25 | - 0.25 | 0.13 | 0.1 | 5 | 11 | 12 | 3 | e. | E. C. Albrecht. |
| Helena. | Lewis & Clark. | 4,110 | 30 | 46.2 | + 2.2 | 72 | 3 | 25 | 31 | 34 | 0.27 | - 0.55 | 0.14 | T. | 4 | 10 | 14 | 7 | w. | U.S. Weather Bureau. |
| Highwood. | Chouteau. | | | | | | | | | | 0.31 | 0.21 | 0.0 | 2 | 19 | 7 | 5 | w. | W. S. McCord. | |
| Home Park. | Madison. | | | | | | | | | | 0.41 | 0.36 | 0.0 | 2 | 19 | 8 | 4 | w. | H. L. Miller. | |
| Hunley. | Yellowstone. | 3,014 | 4 | 48.0 | | 78 | 4 ^t | 17 | 12 | 47 | 0.50 | 0.50 | 0.0 | 1 | 14 | 14 | 3 | s. | U.S. Reclamation Service | |
| Jones Canyon. | Gallatin. | 6,800 | | | | | | | | | 1.08 | 0.45 | 0.0 | 0 | 10 | | | | Jas. McCune. | |
| Jordan. | Dawson. | | | 5 | | | | | | | | | | | | | | W. S. Henderson. | | |
| Kleinsmith Creek. | | | | | | | | | | | | | | | | | | Mrs. E. W. Mills. | | |
| Lewistown. | Jefferson. | | | | | | | | | | | | | | | | | W. W. Watson. | | |
| Livingston. | Fergus. | 4,010 | 12 | 45.6 | - 0.6 | 76 | 1 | 21 | 11 ^t | 40 | 0.91 | 0.33 | 0.0 | 3 | 7 | 24 | 0 | w. | C. M. Mason. | |
| Lodge Pole Creek. | Park. | 4,458 | 11 | 49.4 | + 0.7 | 76 | 28 | 24 | 18 | 42 | 0.79 | - 0.20 | 0.47 | T. | 6 | 10 | 15 | 6 | sw. | U.S. Reclamation Service |
| Lone Tree. | Sweetgrass. | 5,700 | 5 | 48.8 | | 78 | 3 | 22 | 12 ^t | 41 | 0.65 | 0.30 | 0.4 | 4 | 13 | 9 | 9 | w. | E. F. Parent. | |
| Lost Horse Creek. | Meagher. | | | | | | | | | | 0.20 | 0.10 | 0.0 | 2 | 24 | 4 | 3 | w. | E. J. Parkinson. | |
| Lubec. | Teton. | 5,046 | 1 | | | | | | | | 0.37 | 0.20 | 1.4 | 8 | 14 | 15 | 2 | w. | U. S. Weather Bureau. | |
| Malta. | Valley. | 2,240 | 3 | 43.7 | | 77 | 5 | 10 | 12 | 39 | 0.69 | 0.50 | 0.0 | 3 | 23 | 6 | 2 | sw. | W. H. Edick. | |
| Meadow Creek. | Madison. | 6,700 | | | | | | | | | 0.16 | 0.09 | 0.0 | 2 | 12 | 17 | 2 | s. | Clyde Grove. | |
| Meystone. | Fergus. | 2,903 | | | | | | | | | | | | | | | | Emery Mudd. | | |
| Mildred. | Custer. | | | | | | | | | | | | | | | | | Madison River Power Co. | | |
| Miles City. | Park. | 2,371 | 15 | 49.4 | + 2.9 | 82 | 4 | 14 | 12 | 41 | 0.00 | 0.00 | 0.0 | 0 | 28 | 3 | 0 | w. | F. L. Bryant. | |
| Mill Creek. | Fergus. | 5,500 | | | | | | | | | 0.44 | 0.25 | 0.5 | 1 | 14 | 13 | 4 | sw. | Robt. Olsen. | |
| Moore. | Deer Lodge. | | | | | | | | | | 0.46 | 0.0 | 3 | 23 | 3 | 5 | 5 | w. | Mrs. Theola Kiermeyer. | |
| Mudd Creek. | Madison. | | | | | | | | | | | | | | | | | H. M. Cosier. | | |
| Norris. | Sweetgrass. | | | | | | | | | | | | | | | | | W. H. Campbell. | | |
| Nye. | Jefferson. | 6,345 | 1 | 42.2 | | 69 | 4 | 4 | 17 | 58 | 0.87 | 0.51 | 1.2 | 7 | 15 | 10 | 6 | sw. | I. A. Draper. | |
| Olsen Creek. | Jefferson. | | | | | | | | | | 0.70 | 0.27 | 0.6 | 6 | 22 | 5 | 4 | w. | Henry Cramer. | |
| Pipestone Pass. | Poplar. | | | | | | | | | | 1.06 | 0.36 | 1.5 | 6 | 11 | 15 | 5 | sw. | F. B. Elmer. | |
| Poplar. | Teton. | 2,020 | 25 | 43.0 | - 1.6 | 86 | 4 | 4 | 12 | 46 | 0.15 | - 0.57 | 0.15 | 0.0 | 1 | 21 | 6 | 4 | w. | Milo Brooks. |
| Raymond. | Carbon. | 4,260 | 2 | 46.1 | | 86 | 1 | 12 | 10 | 44 | 0.10 | 0.10 | 0.0 | 1 | 8 | 18 | 5 | w. | H. W. Scherbenborg. | |
| Rebers Ranch. | | 6,000 | | | | | | | | | | | | | | | | Jas. Wooley. | | |
| Red Lodge. | | 5,548 | 9 | 43.0 | | 60 | 4 ^t | 18 | 8 | 38 | 1.19 | 0.60 | 3.0 | 5 | 6 | 19 | 6 | se. | Mrs. H. L. Miller. | |
| Reese Creek. | Gallatin. | 5,000 | | | | | | | | | 1.37 | 0.54 | 3.0 | 4 | 14 | 4 | 13 | | I. A. Reber. | |
| Renova. | | | | | | | | | | | 0.58 | 0.20 | 4 | | | | | | F. B. Elmer. | |
| Rimini. | Jefferson. | 4,383 | 10 | 47.0 | | 70 | 13 ^t | 20 | 21 | 43 | 0.45 | - 0.40 | 0.20 | 0.0 | 6 | 10 | 14 | 7 | sw. | Milo Brooks. |
| Ryegate. | Lewis & Clark. | 7,900 | 1 | | | | | | | | 0.38 | 0.16 | 1.5 | 3 | 20 | 5 | 6 | sw. | H. W. Scherbenborg. | |
| Sedan. | Yellowstone. | 3,640 | 1 | 40.8 | | 59 | 4 ^t | 25 | 8 ^t | 19 | 0.42 | 0.22 | 0.0 | 3 | 27 | 0 | 14 | w. | Jas. Wooley. | |
| Springbrook. | Gallatin. | 3,155 | 2 | 43.6 | | 84 | 22 ^t | 17 | 8 ^t | 42 | 0.75 | 0.18 | 1.2 | 9 | 6 | 22 | 3 | w. | Mrs. H. L. Miller. | |
| Stearns. | Lewis & Clark. | 4,500 | | | | | | | | | 0.29 | 0.16 | 0.0 | 2 | 19 | 5 | 7 | s. | Jas. W. Hargrove. | |
| Tokna. | Dawson. | 2,050 | 4 | 44.0 | | 86 | 5 | 6 | 13 | 55 | T. | T. | 0.0 | 0 | 10 | 10 | 2 | | U. S. Reclamation Service | |
| Toston. | Broadwater. | 3,950 | 8 | | | | | | | | 0.58 | 0.20 | 4 | | | | | | W. H. Little. | |
| Townsend. | Park. | 3,790 | | | | | | | | | 1.33 | 0.36 | 3.0 | 10 | 14 | 12 | 5 | w. | River Observer. | |
| Trail Creek. | Fergus. | 5,000 | 16 | 45.5 | - 0.6 | 70 | 6 | 22 | 12 | 41 | 0.40 | - 0.62 | 0.35 | 0.5 | 5 | 26 | 5 | 0 | w. | Andrew Weidenbauer. |
| Utica. | | | | | | | | | | | 1.23 | 0.38 | 0.0 | 3 | 22 | 4 | 5 | w. | P. W. Korell. | |
| Valentine. | | | | | | | | | | | 0.98 | 0.0 | 3 | 22 | 4 | 5 | 5 | w. | B. M. Bean. | |
| Virginia City. | | | | | | | | | | | 0.38 | 0.25 | 0.4 | 5 | 17 | 9 | 9 | w. | Francis Malland. | |
| Wall Rock Mountain. | Broadwater. | | | | | | | | | | 1.15 | 0.31 | 2.0 | 9 | 13 | 12 | 6 | sw. | D. L. Doig. | |
| | | | | | | | | | | | | | | | | | | | | |

MONTHLY WEATHER REVIEW.

OCTOBER, 1909

TABLE 1.—Climatological data for October, 1909. District No. 6—Continued.

| Stations | Counties | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | Precipitation, in inches. | | | | | Sky. | Prevailing wind direction. | Observers. | | | |
|-----------------------------|--------------|------------------|------------------------|-------------------------------------|----------------------------|-----------------|-----------------|-----------------|---------------------------|-----------------------|--------|----------------------------|-----------------------|-------------------------|-----------------------------------------|-------------------------------|-------|---------|-------|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmeted. | Number of rainy days, 0.1 inch or more. | Number of partly cloudy days. | | | |
| <i>North Dakota—Cont'd.</i> | | | | | | | | | | | | | | | | | | | |
| Fullerton. | Dickey. | 1,433 | 10 | 43.6 | | 89 | 5 ⁺ | 10 | 23 | 52 | 0.44 | | 0.20 | 2.0 | 3 | 14 | 7 | 10 nw. | |
| Haley. | Bowman. | 1 | 44.0 ^a | | | 85 ^a | 4 | 10 ^a | 12 | 45 ^a | 1.01 | | 1.00 | 0.0 | 3 | | | nw. | |
| Hettinger. | Adams. | 2,253 | 2 | 54.2 | | 78 | 11 ⁺ | 18 | 12 | 37 | 0.10 | | 0.10 | 1.0 | T. | 1 | 29 | 2 se. | |
| Howard. | Williams. | 2,275 | 2 | 41.3 | | 85 | 4 | 4 | 13 | 43 | 0.50 | | 0.45 | 4.2 | 3 | 9 | 12 | 10 se. | |
| Jamestown. | Stutsman. | 1,390 | 21 | 41.0 | - 5.1 | 88 | 5 | 5 | 13 | 61 | 0.83 | - 0.14 | 0.50 | 0.0 | 3 | 8 | 17 | 6 ne. | |
| Kulm. | Lamoure. | 1,966 | 4 | | | | | | | | | | | | | | | | |
| Lamoure. | Kidder. | 1 | 41.4 | | | 90 | 5 | 6 | 13 | 42 | 0.57 | | 0.37 | 2.0 | 2 | 20 | 4 | 7 nw. | |
| Manfred. | Lamoure. | 1,307 | 2 | | | | | | | | | | | | | | | | |
| Marmarth. | Wells. | | 42.6 | | | 89 | 5 ⁺ | 9 | 12 | 41 | 0.87 | | 0.52 | 3.0 | 3 | 18 | 4 | 9 nw. | |
| Marionmoor. | Bowman. | 1 | | | | | | | | | | | | | | | | | |
| Medina. | Stutsman. | do. | 1,796 | 4 | | | | | | | | | | | | | | | |
| Medora. | Billings. | 2,225 | 12 | 45.8 | + 0.7 | 86 | 5 | 14 | 12 | 52 | 0.25 | | 0.31 | 0.25 | T. | 1 | 17 | 11 3 e. | |
| Melville. | Foster. | 1,590 | 11 | | | 82 ^a | 4 | 11 ^a | 13 | 47 ^a | 0.42 | | 1.13 | 0.30 | 3.0 | 2 | | nw. | |
| Mott. | Hettinger. | | 41.8 | | | 81 | 5 | 12 | 12 | 40 | 1.23 | | 1.14 | 1.0 | 2 | 10 | 13 | 8 se. | |
| Napoleon. | Logan. | 1,955 | 17 | 42.4 | - 1.4 | 91 | 5 | 4 | 13 | 46 | 0.70 | - 0.26 | 0.60 | 1.0 | 2 | 19 | 3 | 9 nw. | |
| New England. | Hettinger. | 2,400 | 14 | 44.2 | + 0.2 | 81 | 11 ⁺ | 18 | 20 | 45 | 0.67 | + 0.48 | 0.65 | 0.2 | 2 | | | nw. | |
| New Salem. | Morton. | 2,163 | 2 | 43.8 | | 88 | 4 | 8 | 13 | 42 | 0.70 | | 0.45 | 0.0 | 5 | 14 | 13 | 4 nw. | |
| Orange. | Adams. | | 44.2 | | | 87 | 6 | 13 | 13 | 54 | 0.50 | | 0.38 | 0.0 | 2 | 16 | 11 | 4 nw. | |
| Palermo. | Ward. | 2,200 | 5 | | | | | | | | | | | | | | | | |
| Steele. | Kidder. | 1,857 | 13 | 43.4 ^a | - 0.1 | 86 ^a | 6 | 13 ^b | 7 | 40 | 0.69 | - 0.01 | 0.69 | T. | 1 | | | nw. | |
| Swartwood. | Bowman. | 1 | | | | | | | | | | | | | | | | | |
| Washburn. | McLean. | 1,731 | 5 | 44.4 | | 89 | 5 | 10 | 13 | 39 | 0.27 | | 0.11 | 1.0 | 3 | 18 | 9 | 4 nw. | |
| Williston. | Williams. | 1,875 | 29 | 41.8 | | 86 | 4 | 6 | 13 | 48 | 0.21 | | 0.07 | 1.2 | 7 | 6 | 17 | 8 nw. | |
| Wishek. | McIntosh. | 2,010 | 4 | 42.9 | | 81 | 3 | 11 | 14 | 50 | 0.40 | | 0.40 | T. | 1 | 23 | 6 | 2 nw. | |
| <i>South Dakota.</i> | | | | | | | | | | | | | | | | | | | |
| Aberdeen. | Brown. | 1,300 | 20 | 45.4 | - 0.2 | 91 | 6 | 10 | 13 | 46 | 0.85 | - 0.98 | 0.40 | T. | 3 | 20 | 3 | 8 s. | |
| Academy. | Charles Mix. | 21 | 51.6 | + 0.1 | | 94 | 5 | 14 | 13 | 42 | 1.12 | - 0.49 | 0.36 | T. | 5 | 18 | 8 | 5 nw. | |
| Alexandria. | Hanson. | 1,352 | 21 | 49.6 | - 0.2 | 88 | 5 ⁺ | 15 | 13 | 38 | 1.87 | - 0.05 | T. | 4 | 13 | 14 | 4 se. | | |
| Andover. | Day. | 1,476 | 46.4 | | | 90 | 5 | 10 | 13 | 51 | 2.44 | | 1.10 | T. | 3 | 15 | 5 | 11 nw. | |
| Ardmore. | Fall River. | 3,557 | 1 | | | | | | | | | | | | | | | | |
| Armour. | Douglas. | 1,521 | 16 | 50.6 | - 0.5 | 95 | 5 | 19 | 12 | 44 | 1.85 | - 0.18 | 0.87 | T. | 0 | 1 | 14 | 3 nw. | |
| Ashcroft. | Harding. | 3,192 | 18 | 46.8 ^b | + 0.8 | 82 ^b | 6 | 4 | 13 | 44 ^b | T. | - 0.62 | T. | 0 | 6 | 20 | 7 | 4 nw. | |
| Belle Fourche. | Butte. | 3,000 | 2 | 48.2 | | 84 | 3 ⁺ | 9 | 12 | 50 | 0.41 | | 0.38 | 0.0 | 2 | 7 | 13 | 11 nw. | |
| Bowdle. | Edmunds. | 1,995 | 15 | 45.8 ^b | - 0.5 | 86 ^b | 6 | 7 ^b | 13 | 41 ^b | T. | | | | | | | | |
| Brookings. | Brookings. | 1,630 | 23 | 46.2 | + 0.1 | 85 | 5 ⁺ | 10 | 13 | 34 | 1.71 | + 0.34 | 1.08 | T. | 5 | 11 | 6 | 14 nw. | |
| Burke. | Gregory. | 2 | 50.5 | | | 93 | 5 | 11 | 13 | 42 | 1.27 | | 0.62 | 0.0 | 4 | 21 | 3 | 7 nw. | |
| Canton. | Lincoln. | 1,248 | 14 | 48.1 | - 2.0 | 84 | 5 ⁺ | 10 | 13 | 35 | 1.31 | - 0.59 | 0.49 | T. | 5 | 21 | 1 | 9 se. | |
| Cascade Springs. | Fall River. | 3,422 | 24 | 49.0 | | 84 | 4 ⁺ | 15 | 12 | 57 | 1.10 | | 1.10 | 0.0 | 1 | 24 | 3 | 4 nw. | |
| Castlewood. | Hamlin. | 1,685 | 4 | 44.8 | | 85 | 5 | 12 | 13 | 36 | 1.55 | | 0.70 | T. | 6 | 10 | 2 | 19 nw. | |
| Centerville. | Turner. | 1,229 | 5 | 53.0 ^b | | 84 ^b | 6 | 12 ^b | 13 | 42 ^b | 1.52 | - 0.33 | 0.67 | 0.2 | 5 | 14 | 1 | 5 nw. | |
| Chamberlain. | Brule. | 1,363 | 12 | 49.9 | - 2.1 | 93 | 5 | 16 | 14 | 50 | 1.16 | - 0.11 | 0.76 | 0.0 | 2 | 16 | 9 | 6 nw. | |
| Clark. | Clark. | 1,779 | 16 | 44.8 | - 3.0 | 81 | 6 | 10 | 13 | 38 | 2.56 | + 1.00 | 0.95 | T. | 4 | 17 | 7 | 7 nw. | |
| Clear Lake. | Deuel. | 1,800 | 7 | | | | | | | | | | | | | | | | |
| Clifton. | Sully. | | | | | | | | | | | | | | | | | | |
| Cottonwood. | Stanley. | 1 | 50.0 | | | 92 | 4 | 12 | 12 | 48 | 0.26 | | 0.22 | 0.0 | 2 | 23 | 5 | 3 nw. | |
| Daviston. | Perkins. | 1 | 45.4 | | | 85 | 6 | 14 | 27 | 58 | 1.07 | | 0.77 | 0.0 | 2 | 12 | 11 | 8 nw. | |
| Deadwood. | Lawrence. | 4,535 | 1 | 46.6 | | 81 | 4 | 10 | 12 | 47 | 1.85 | | 0.90 | 0.2 | 4 | 20 | 6 | 5 nw. | |
| De Smet. | Kingsbury. | 1,726 | 18 | 47.6 ^b | + 0.4 | 88 ^b | 5 | 9 | 13 | 39 ^b | 1.53 | - 0.20 | T. | 4 | 19 | 8 | 4 nw. | | |
| Dowling. | Stanley. | 2,250 | 1 | 50.7 | | 89 | 4 | 14 | 12 | 38 | 0.70 | | 0.60 | 1.0 | 2 | 19 | 9 | 3 sw. | |
| Dumont. | Lawrence. | 6,105 | 1 | | | | | | | | | | | | | | | | |
| Elk Point. | Union. | 1,127 | 11 | 52.8 | - 0.7 | 90 | 7 | 25 | 13 | 46 | 2.15 | - 0.16 | 1.50 | T. | 3 | 10 | 13 | 8 nc. | |
| Ellingson. | Perkins. | | | | | | | | | | | | | | | | | | |
| Englewood. | Lawrence. | 5,723 | 1 | | | | | | | | | | | | | | | | |
| Eureka. | McPherson. | 1,884 | 1 | 47.0 | | 89 | 5 | 10 | 13 | 47 | 0.17 | | 0.17 | 0.0 | 1 | 16 | 11 | 4 nw. | |
| Fairfax. | Gregory. | 7 | 53.0 | | | 93 | 5 | 25 ^b | 27 ^b | 40 ^b | | | | | | | | | |
| Farmington. | Pennington. | 3,000 | 14 | | | | | | | | | | | | | | | | |
| Faulkton. | Faulk. | 1,595 | 16 | 46.0 | - 0.7 | 89 | 6 | 9 | 13 | 45 | 0.50 | - 0.66 | 0.25 | T. | 3 | 21 | 4 | 6 nw. | |
| Flandreau. | Moody. | 1,565 | 20 | 46.6 | - 1.5 | 85 | 6 | 12 | 13 | 44 | 1.26 | - 0.49 | 0.88 | T. | 4 | 19 | 5 | 7 nw. | |
| Forestburg. | Sanborn. | 1,231 | 19 | 48.9 | + 0.2 | 92 | 6 | 12 | 13 | 44 | 1.73 | + 0.15 | 0.78 | T. | 5 | 17 | 6 | 8 nw. | |
| Fort Meade. | Meade. | 3,624 | 29 | 47.8 ^b | - 0.4 | 85 ^b | 3 ⁺ | 10 | 12 | 49 ^b | 0.50 | - 0.56 | 0.50 | 0.0 | 1 | 14 | 10 | 7 w. | |
| Frederick. | Brown. | 1,371 | 3 | 44.4 | | 90 ^b | 6 | 8 ^b | 13 | 45 | 0.45 | | 0.29 | 1.0 | 2 | 12 | 5 | 7 nw. | |
| Gann Valley. | Buffalo. | 1,229 | 12 | 49.6 | - 0.8 | 91 | 5 | 14 | 13 | 39 | 1.00 | - 0.01 | 0.32 | 0.0 | 4 | 13 | 5 | 7 nw. | |
| Greenmount. | Lawrence. | 6,430 | 1 | | | | | | | | | | | | | | | | |
| Greenwood. | Charles Mix. | 15 | 53.8 | + 1.0 | | 92 | 5 | 17 | 13 | 39 | 1.80 | - 0.03 | 0.91 | T. | 4 | 15 | 9 | 2 se. | |
| Hardy Ranger Station. | Lawrence. | 6,600 | | | | | | | | | | | | | | | | | |
| Hermosa. | Custer. | 3,349 | 4 | 49.2 | | 86 | 6 | 12 | 11 | 38 | 0.50 | | 1.12 | 0.47 | 3.0 | 4 | 27 | 1 | 3 nw. |
| Highmore. | Hyde. | 1,890 | 16 | 48.0 | + 0.5 | 92 | 5 | 10 | 13 | 40 | 1.04 | - 0.11 | 0.34 | T. | 5 | 17 | 9 | 5 nw. | |
| Hill City. | Pennington. | 5,061 | 1 | | | | | | | | | | | | | | | | |
| Howard. | Miner. | 1,564 | 18 | 46.0 | - 1.5 | 87 | 6 | 7 ^b | 13 | 38 | 1.97 | + 0.13 | 0.72 | T. | 4 | 16 | 8 | 7 nw. | |
| Howell. | Hand. | 8 | 47.5 | | | 91 | 5 | 8 | 13 | 46 | 1.12 | | 0.50 | T. | 5 | 20 | 5 | 6 sc. | |
| Huron. | Beadle. | 1,306 | 29 | 46.9 | + 2.2 | 88 | 5 | 14 | 13 | 48 | 2.50 | + 1.16 | 0.99 | T. | 5 | 13 | 4 | 4 nw. | |
| Ipwich. | Edmunds. | 1,530 | 12 | 44.9 | - 1.2 | 90 | 6 | 10 | 13 | 47 | 0.25 | - 1.07 | 0.25 | T. | 1 | 23 | | | |
| Kadoka. | Stanley. | 2,467 | 1 | 50.0 | | 83 | 6 | 20 | 10 | 48 | 0.51 | | 0.51 | T. | 1 | | | | |
| Kennebec. | Lyman. | 1,680 | 14 | 45.2 ^c | - 4.4 | 73 ^c | 20 | 11 ^c | 13 | 44 ^c | 0.30 | - 0.73 | 0.20 | T. | 2 | 20 | 6 | 5 nw. | |
| Kidder. | Marshall. | 1,295 | 6 | 46.6 ^b | | 90 | 5 | 18 ^b | 27 | 43 | 2.80 | | 1.50 | 3.0 | 3 | 20 | 4 | 7 nw. | |
| Kimball. | Brule. | 1,788 | 20 | 49.8 | + 1.4 | 92 | 5 | 17 | 13 | 42 | 2.32 | + 1.25 | 0.73 | T. | 6 | 20 | 6 | 5 nw. | |
| La Delle. | Spink. | 1,400 | 13 | 48.0 | - 0.3 | 90 | 6 | 14 | 13 | 34 | 3.24 | + 1.31 | 1.03 | T. | 5 | 17 | 4 | 10 nw. | |
| Lead. | Lawrence. | 5,200 | 1 | 47.6 | | 77 | 4 | 13 | 12 | 37 | 1.41 | | 0.62 | 1.0 | 5 | 14 | 11 | 6 e. | |
| Lemon. | Perkins. | 2,345 | 1 | 44.4 | | | | | | | | | | | | | | | |

TABLE 1.—*Climatological data for October, 1909. District No. 6—Continued.*

| Stations | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | Precipitation, in inches. | | | | | Observers. | | | | | |
|-----------------------------|--------------|------------------|------------------------|-------------------------------------|----------------------------|-----------------|-----------------|-----------------|---------------------------|-----------------------|-------------------|----------------------------|-----------------------|--------------------------|--------------------------------------|-----------------|----------------|------|------|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | Number of rainy days 10 hr. or more. | Sky. | | | |
| <i>South Dakota—Cont'd.</i> | | | | | | | | | | | | | | | | | | | |
| Selby. | Walworth. | 1 | 47.6 ^b | — | — | 88 ^b | 5 | 11 ^a | 13 | 39 ^b | 0.70 | — | 0.72 | T. | 2 | 17 | 7 | se. | |
| Sioux Falls. | Minnehaha. | 1,400 | 20 | 48.6 | — 0.7 | 87 | 5 | 13 | 13 | 39 | 1.50 | — 0.20 | 0.80 | T. | 4 | 15 | 8 | n.w. | |
| Spearfish. | Lawrence. | 3,647 | 1 | 48.1 | — | 92 | 5 | 10 | 13 | 43 | 0.69 | — | 0.48 | T. | 4 | 12 | 13 | n.w. | |
| Stephan. | Hyde. | 1,840 | 5 | 48.1 | — | 89 ^a | 6 | 10 | 12 | 58 ^a | 0.57 | — | 0.48 | T. | 4 | 8 | 8 | n.w. | |
| Tama. | Meade. | 1 | 46.6 ^a | — | 86 | 4 ^a | 12 | 12 | 53 | 1.05 | — | 1.01 | 0.0 | T. | 2 | 20 | 9 | n.w. | |
| Vale. | Butte. | 2,765 | 2 | 48.0 | — | 86 | 4 ^a | 12 | 12 | 53 | 1.05 | — | 1.01 | 0.0 | T. | 2 | 20 | 9 | n.w. |
| Van Metre. | Lyman. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Vermillion. | Clay. | 1,222 | 8 | 51.4 | — | 87 | 5 | 16 | 13 | 40 | 2.51 | — | 0.78 | T. | 6 | 17 | 5 | n.w. | |
| Water's Ranch. | Lawrence. | 4,000 | 1 | — | — | — | — | — | — | — | 0.39 | — | 0.39 | T. | 0 | 1 | — | — | |
| Watertown. | Codington. | 1,735 | 14 | 45.6 ^b | + 0.4 | 86 ^a | 5 | 15 | 13 | 34 ^a | 1.65 | + 0.01 | 0.92 | T. | 2 | 16 | 5 | s. | |
| Wentworth. | Lake. | 19 | 45.7 ^a | + 2.0 | 85 ^a | 5 ^a | 11 ^a | 13 | 33 ^a | 1.85 | + 0.16 | 0.62 | 1.9 | T. | 6 | 17 | 7 | s. | |
| Wessington Springs. | Jerauld. | 1,410 | 14 | 49.2 | + 0.2 | 90 ^a | 5 | 14 | 13 | 39 ^a | 1.42 | + 0.40 | 0.54 | T. | 4 | 20 | 4 | n.w. | |
| White Lake. | Aurora. | 1,646 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Yankton. | Yankton. | 1,234 | 37 | 50.0 | — 0.5 | 89 | 5 | 18 | 13 | 33 ^a | 2.22 | + 0.65 | 1.53 | T. | 6 | 19 | 12 | n.w. | |
| <i>Minnesota.</i> | | | | | | | | | | | | | | | | | | | |
| Pipestone. | Pipestone. | 1,710 | 10 | 46.8 ^a | + 1.1 | 84 ^a | 6 | 11 ^a | 13 | 39 ^a | 0.40 ^a | — 1.57 | 0.21 ^a | T. | 2 | 12 ^a | 9 ^a | se. | |
| <i>Colorado.</i> | | | | | | | | | | | | | | | | | | | |
| Akron. | Washington. | 4,650 | 7 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Alma. | Park. | 10,238 | 12 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Arriba (near). | Lincoln. | 5,239 | 3 | 48.5 | — | 83 | 2 | 16 | 27 | 52 | 1.35 | — | 1.33 | T. | 1 | 18 | 9 | sw. | |
| Auldhurst. | Teller. | 8,500 | 2 | 43.2 | — | 65 | 2 ^a | 12 | 9 | 46 | 0.25 | — | 0.33 | T. | 5 | 12 | 15 | s. | |
| Barker. | Boulder. | 8,000 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Boreas. | Park. | 11,489 | 13 | 63.9 | + 1.5 | 80 | 2 | 23 | 12 | 40 | 0.35 | — 0.98 | 0.28 | T. | 3 | 23 | 7 | w. | |
| Boulder. | Boulder. | 5,347 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Burlington. | Kit Carson. | 4,186 | 5 | 53.3 | — | 91 | 3 | 28 | 7 ^a | 43 | 1.10 | — | 1.00 | T. | 2 | 26 | 1 | se. | |
| Cassels. | Park. | 8,445 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Castle Rock. | Douglas. | 6,220 | 18 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Chesman. | Jefferson. | 6,890 | 6 | 49.8 | — | 76 | 2 ^a | 19 | 9 | 46 | 0.41 | — | 0.24 | T. | 3 | 22 | 7 | sw. | |
| Cheyenne Wells. | Cheyenne. | 4,279 | 16 | 51.0 | — 1.1 | 91 | 4 | 23 | 24 | 55 | 1.00 | + 0.13 | 1.00 | T. | 3 | 5 | 3 | s. | |
| Como. | Park. | 9,755 | 10 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Cope. | Washington. | 11,550 | 11 | 51.3 | + 0.2 | 88 | 1 | 22 | 24 ^a | 55 | 1.04 | — 0.09 | 0.70 | T. | 3 | 17 | 10 | s. | |
| Corona. | Grand. | 20 | 20.9 | — | — | 56 | 2 | 4 | 10 ^a | 24 | 1.30 | — | 0.50 | T. | 7 | 17 | 7 | w. | |
| Denver. | Denver. | 5,272 | 37 | 52.4 | + 1.4 | 79 | 5 | 26 | 11 | 45 | 0.28 | — | 0.68 | T. | 4 | 17 | 9 | s. | |
| Eigenvater. | Jefferson. | — | 1 | 52.2 | — | 89 | 1 ^a | 21 | 9 | 52 | 0.51 | — | 0.25 | T. | 3 | 14 | 8 | w. | |
| Erie Park Hatchery. | Larimer. | 8,000 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Fort Collins. | — | 4,985 | 29 | 49.6 | + 1.5 | 82 | 2 | 16 | 9 | 50 | 0.08 | — | 0.04 | 0.04 | T. | 3 | 20 | 10 | n.w. |
| Fort Morgan. | Morgan. | 4,319 | 14 | 50.5 | + 0.9 | 85 | 3 | 22 | 24 ^a | 54 | 0.70 | — | 0.20 | 0.30 | T. | 3 | 13 | 11 | sc. |
| Frances. | Boulder. | 9,300 | 4 | 43.0 | — | — | — | — | — | — | — | — | — | — | T. | 7 | 11 | 3 | w. |
| Fry's Ranch. | Larimer. | 7,500 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Georgetown. | Clear Creek. | 8,556 | 8 | — | — | 72 | 28 | 15 | 18 | 44 | 0.23 | — | 0.07 | T. | 3 | 18 | 9 | 4 | |
| Greeley. | Weld. | 4,619 | 18 | 51.8 | + 2.2 | 84 | 3 | 21 | 91 | 57 | 0.27 | — | 0.60 | 0.23 | T. | 0 | 3 | 20 | 7 |
| Hartsel. | Park. | 7,670 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Hawthorne. | Boulder. | 6,000 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Holyoke (near). | Phillips. | 2,745 | 13 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Idaho Springs. | Clear Creek. | 7,534 | 9 | 48.0 | — | 73 | 2 | 17 | 9 | 40 | 0.18 | — | 0.07 | T. | 3 | 1 | 29 | 1 | |
| Keota. | Weld. | 4,966 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Kossler. | Boulder. | 7,720 | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| La Port. | Larimer. | 5,053 | 18 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Le Roy (near). | Logan. | 4,380 | 20 | 50.4 | + 0.4 | 85 | 5 | 21 | 18 | 51 | 0.56 | — | 0.12 | 0.35 | T. | 4 | 13 | 14 | sc. |
| Longmont. | Boulder. | 4,989 | 7 | 50.5 | — | 87 | 2 | 20 | 9 | 55 | 0.22 | — | 0.08 | 0.0 | T. | 4 | 25 | 3 | — |
| Long's Peak (near). | Larimer. | 8,600 | 14 | 43.8 | + 4.8 | 70 | 30 | 16 | 25 | 51 | 0.10 | — | 1.33 | 0.10 | T. | 1 | 21 | 6 | n.w. |
| Moraine. | — | 7,775 | — | 44.9 | + 2.4 | 74 | 3 | 14 | 31 | 51 | — | — | — | — | T. | 16 | 14 | 1 | w. |
| Platte Canyon. | Jefferson. | 5,492 | 10 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| St. Cloud. | Larimer. | 7,750 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Sedgewick. | Sedgewick. | 3,573 | 1 | 49.6 | — | 83 | 5 | 20 | 19 | 54 | 0.05 | — | 0.05 | T. | 1 | 17 | 14 | 0 | |
| Sill Mine. | Clear Creek. | 11,500 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Spicer (near). | Larimer. | 8,700 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Waterdale. | — | 5,206 | 14 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Westlake. | Boulder. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Wray. | Yuma. | 3,512 | 15 | 52.2 | + 1.1 | 88 | 3 ^a | 22 | 12 | 54 | 1.11 | + 0.13 | 0.56 | T. | 4 | 18 | 12 | 1 | |
| Yuma. | — | 4,138 | 18 | — | — | — | — | — | — | — | — | — | — | — | T. | 0.7 | 3 | 18 | 5 |
| <i>Nebraska.</i> | | | | | | | | | | | | | | | | | | | |
| Ainsworth. | Brown. | 2,521 | 4 | 49.9 | — | 92 | 5 | 14 | 12 | 47 | 1.09 | — | 0.42 | T. | 3 | 7 | 16 | 8 | |
| Albion. | Boone. | 1,747 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Alliance. | Boxbutte. | 3,068 | 14 | — | — | — | — | — | — | — | — | — | — | — | T. | 0.5 | 3 | 13 | 5 |
| Alma. | Harlan. | 1,939 | 12 | 53.2 | + 1.0 | 89 | 2 ^a | 21 | 12 | 50 | 1.53 | + 0.41 | 1.08 | T. | 0.4 | 18 | 9 | 4 | |
| Anoka. | Boyd. | 3 | 48.6 | — | 94 | 5 | 13 | 13 | 47 | 1.23 | — | 0.53 | T. | 3 | 13 | 12 | 6 | | |
| Aradia. | Valley. | 2,186 | — | — | — | — | — | — | — | — | — | — | — | — | T. | 7 | 12 | 7 | |
| Ashland. | Saunders. | 1,100 | 19 | 53.6 | + 1.3 | 90 | 2 ^a | 24 | 12 | 37 | 0.98 | + 1.20 | 0.44 | T. | 6 | 10 | 9 | s. | |
| Atston. | Sherman. | 2,061 | — | — | — | — | — | — | — | — | — | — | — | — | T. | 4 | 18 | 5 | |
| Atkinson. | Holt. | 2,108 | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Auburn. | Nemaha. | 1,051 | 17 | 54.6 ^b | + 1.1 | 93 | 4 | 23 | 13 | 44 | 0.73 | — 2.11 | 0.38 | T. | 4 | 16 | 5 | 10 | |
| Aurora. | Hamilton. | — | — | 53.3 | + 0.1 | 90 | 2 | 22 | 12 | 40 | 2.33 | — 0.02 | 1.25 | T. | 0.0 | 4 | 19 | 0 | |
| Beatrice. | Gage. | 1,235 | 18 | 54.3 | + 0.5 | 87 | 3 ^a | 25 | 12 | 42 | 0.44 | — 1.85 | 0.30 | T. | 4 | 18 | 9 | 4 | |
| Beaver City. | Furnas. | 2,147 | 18 | 55.0 | + 0.6 | 101 | 2 | 19 | 12 | 45 | 1.42 | + 0.06 | 1.07 | T. | 0.0 | 6 | 14 | 10 | |
| Bellevue. | Sarpy. | 1,210 | 5 | 54.3 | — | 89 | 2 | 24 | 12 | 30 | 1.12 | — 0.98 | 0.55</ | | | | | | |

MONTHLY WEATHER REVIEW.

OCTOBER, 1909

TABLE 1.—Climatological data for October, 1909. District No. 6—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | | | Sky. | Prevailing wind direction. | Observers. | | |
|-------------------------|--------------|------------------|------------------------|-------------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|-------------------------|----------------------------------------|-----------------------|-------------------------------|------------------------|---------------------------|-------------------------|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmeted. | Number of rainy days .01 inch or more. | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | | |
| <i>Nebraska—Cont'd.</i> | | | | | | | | | | | | | | | | | | | | |
| Dawson. | Richardson. | 945 | 13 | 54.5 | - 2.7 | 92 | 3 | 23 | 13 | 42 | 1.08 | - 2.04 | 0.53 | T. | 5 | 17 | 4 | 10 | sw. | Mrs. E. I. Atkinson. |
| Duhols. | Pawnee. | 1,074 | | | | | | | | | 1.30 | | 0.52 | T. | 5 | 18 | 8 | 5 | s. | O. M. Backus. |
| Duff. | Rock. | | | | | | | | | | | | | | | | | | | Dewitt Eager. |
| Edgar. | Clay. | 1,722 | | | | | | | | | | | | | | | | | | G. W. Ferves. |
| Ellis. | Gage. | 1,430 | | | | | | | | | | | | | | | | | | D. J. Wood. |
| Elmcreek. | Buffalo. | 2,268 | | | | | | | | | | | | | | | | | | E. L. Sutton. |
| Erie. | Perkins. | 3,382 | | | | | | | | | | | | | | | | | | J. L. Brittain. |
| Enderslake. | Brown. | | 1 | 53.0 | | 88 | 4 | 24 | 12 | 41 | 0.50 | | 0.50 | 0.0 | 1 | 2 | 0 | 11 | nw. | C. D. Langley. |
| Endicott. | J-ferson. | 1,288 | | | | | | | | | | | | | | | | | | Agent, C. B. & Q. R. R. |
| Ewing. | Holt. | 1,888 | 3 | 49.6 | | 90 | 6 | 18 | 13 | 45 | 1.53 | - 0.26 | 0.80 | T. | 2 | | | | | G. H. Benson. |
| Fairbury. | Jefferson. | 1,316 | 14 | 55.6 | + 0.7 | 92 | 3 | 25 | 12 | 43 | 0.98 | - 1.30 | 0.31 | T. | 6 | 17 | 10 | 4 | nw. | W. F. Cramb. |
| Fairmont. | Fillmore. | 1,641 | 15 | 53.6 | + 0.8 | 90 | 4 | 21 | 12 | 49 | 1.75 | - 1.07 | 0.98 | T. | 3 | 16 | 4 | 11 | s. | Agent, C. B. & Q. R. R. |
| Fort Robinson. | Dawes. | 3,764 | 27 | 47.9 | - 0.4 | 85 | 5 | 14 | 12 | 52 | 1.11 | - 0.17 | 1.05 | T. | 2 | 18 | 7 | 6 | sw. | Post Surgeon. |
| Franklin. | Franklin. | 1,820 | 15 | 54.6 | - 1.4 | 93 | 3 | 16 | 12 | 47 | 1.75 | - 0.03 | 1.25 | T. | 3 | 21 | 4 | 6 | s. | D. T. Shoemaker. |
| Fremont. | Dodge. | 1,203 | 27 | 52.8 | + 0.3 | 90 | 2 | 20 | 13 | 43 | 0.89 | - 1.38 | 0.46 | T. | 5 | 12 | 9 | 10 | nw. | Ernest Hahn. |
| Fullerton. | Nance. | 1,629 | 3 | 50.4 | | 87 | 27 | 20 | 12 | 42 | 2.17 | | 1.28 | T. | 3 | 18 | 6 | 7 | se. | Dr. F. W. Johnson. |
| Geneva. | Fillmore. | 1,633 | 17 | 54.4 | + 0.4 | 92 | 3 | 23 | 12 | 42 | 1.82 | - 0.68 | 1.45 | T. | 3 | 14 | 3 | 3 | se. | F. M. Flory. |
| Genoa. | Nance. | 1,584 | 34 | 51.8 | + 1.0 | 89 | 37 | 21 | 12 | 40 | 1.77 | + 0.02 | 1.32 | T. | 3 | 14 | 16 | 1 | nw. | F. W. Parsons. |
| Gordan. | Sheridan. | 3,550 | 1 | 46.6 | | 87 | 4 | 0 | 12 | 54 | 0.11 | | 0.11 | T. | 1 | 14 | 6 | 6 | s. | G. F. Williams. |
| Gosper. | Gosper. | | | | | | | | | | | | | | | | | | E. H. Stoll. | |
| Gothenburg. | Dawson. | 2,557 | 15 | 52.4 | + 0.4 | 92 | 2 | 11 | 12 | 52 | 0.50 | - 1.07 | 0.50 | T. | 1 | 20 | 1 | 10 | nw. | W. J. Bartholomew. |
| Grand Island. | Hall. | 1,860 | 17 | 51.8 | - 0.7 | 91 | 3 | 20 | 12 | 43 | 1.96 | - 0.63 | 1.10 | T. | 3 | 13 | 7 | 11 | s. | E. A. Barnes. |
| Grant. | Perkins. | 3,405 | 5 | 50.2 | | 90 | 2 | 9 | 12 | 56 | 0.15 | | 0.15 | T. | 1 | 17 | 12 | 2 | sw. | Cyrus Carver. |
| Greeley. | Greeley. | 2,021 | 2 | 51.4 | | 90 | 37 | 20 | 12 | 46 | 1.72 | - 0.03 | 1.31 | T. | 4 | 12 | 14 | 5 | se. | W. E. Morgan. |
| Guderlock. | Webster. | 1,646 | | | | | | | | | | | | | | | | | J. S. Marsh. | |
| Haigler. | Dundy. | 3,258 | | | | | | | | | | | | | | | | | Agent, C. B. & Q. R. R. | |
| Halsey. | Thomas. | 2,694 | 6 | 51.8 | | 90 | 5 | 13 | 12 | 46 | 0.45 | | 0.45 | T. | 1 | 14 | 9 | 8 | nw. | U. S. Forest Service. |
| Hartington. | Cedar. | 1,209 | 18 | 49.5 | - 1.4 | 89 | 4 | 15 | 13 | 39 | 1.00 | - 0.64 | 0.42 | T. | 4 | 12 | 7 | 12 | nw. | D. E. Ewing. |
| Harvard. | Clay. | 1,815 | 19 | 50.6 | - 1.3 | 87 | 27 | 19 | 12 | 41 | 3.17 | + 0.84 | 1.77 | T. | 4 | 20 | 7 | 4 | sw. | Dr. J. T. Fleming. |
| Hastings. | Adams. | 1,932 | 16 | 51.0 | - 2.0 | 90 | 3 | 21 | 12 | 47 | 1.39 | - 0.78 | 1.25 | T. | 2 | 19 | 2 | 10 | se. | C. B. C. & Q. R. R. |
| Hayes Center. | Hayes. | 5 | 52.0 | | | 90 | 27 | 14 | 12 | 56 | 0.27 | - 1.23 | 0.25 | T. | 2 | 23 | 6 | 2 | se. | C. A. Ready. |
| Hay Springs. | Sheridan. | 3,821 | 22 | 47.7 | + 0.5 | 89 | 5 | 10 | 12 | 50 | 0.02 | - 0.37 | 0.92 | T. | 1 | 11 | 17 | 3 | nw. | A. Kadlecik. |
| Hebron. | Thayer. | 1,456 | 24 | | | | | | | | | | | | | | | | C. M. Easton. | |
| Hendley. | Furnas. | 2,231 | | | | | | | | | | | | | | | | | F. A. Jones. | |
| Holdrege. | Phelps. | 2,324 | 15 | 52.5 | - 0.1 | 91 | 3 | 21 | 12 | 45 | 1.35 | - 0.39 | 1.15 | T. | 2 | 21 | 0 | 10 | nw. | Agent, C. B. & Q. R. R. |
| Hooper. | Dodge. | 1,238 | 12 | 52.2 | + 0.3 | 90 | 2 | 19 | 13 | 40 | 4.02 | + 1.54 | 3.06 | T. | 5 | 14 | 11 | 6 | nw. | T. W. Lyman. |
| Imperial. | Chase. | 3,278 | 20 | 53.4 | + 1.2 | 90 | 3 | 17 | 12 | 51 | 0.20 | - 0.88 | 0.20 | T. | 1 | | | | se. | Robt. Malcolm. |
| Kearney. | Buffalo. | 2,146 | 17 | 53.2 | - 0.4 | 92 | 3 | 17 | 12 | 42 | 1.49 | - 0.41 | 0.95 | T. | 4 | 19 | 7 | 5 | ne. | N. C. Dunlap. |
| Kimball. | Kimball. | 4,697 | 21 | 49.0 | + 0.9 | 82 | 3 | 20 | 12 | 52 | 0.60 | - 0.03 | 0.29 | T. | 3 | 23 | 1 | 1 | nw. | F. J. Bellows. |
| Kirkwood. | Rock. | 14 | 51.6 | + 1.8 | 94 | 5 | 17 | 13 | 44 | 0.74 | - 1.02 | 0.41 | T. | 3 | 21 | 2 | 8 | nw. | Mrs. C. Arter. | |
| Kowanda. | Denell. | | | | | | | | | | | | | | | | | | Geo. W. Hulse. | |
| Leavitt. | Dodge. | 1,238 | | | | | | | | | | | | | | | | | W. T. Scilley. | |
| Lexington. | Lancaster. | 2,385 | 20 | 51.8 | - 0.3 | 89 | 27 | 17 | 12 | 49 | 0.86 | - 0.61 | 0.86 | T. | 1 | 25 | 0 | 6 | s. | Robt Chadwick. |
| Lincoln. | Cheyenne. | 1,189 | 24 | 53.9 | + 0.6 | 91 | 3 | 21 | 12 | 39 | 1.49 | - 0.33 | 1.09 | T. | 7 | 13 | 3 | 15 | s. | U. S. Weather Bureau. |
| Lodgepole. | Sherman. | 3,820 | | | | | | | | | | | | | | | | | | |
| Loup. | Custer. | 2,067 | | 50.6 | - 0.6 | 88 | 2 | 18 | 12 | 44 | 1.09 | - 1.02 | 0.84 | T. | 2 | 22 | 5 | 4 | nw. | C. H. Cass. |
| Loyal. | Boyd. | 17 | 52.4 | + 1.2 | 93 | 6 | 20 | 15 | 45 | 2.05 | + 0.45 | 1.05 | T. | 3 | 20 | 6 | 5 | nw. | S. W. Lightner. | |
| Lynch. | Redwillow. | 2,506 | 9 | 52.7 | | 91 | 27 | 12 | 12 | 54 | 0.59 | - 0.53 | 0.59 | T. | 1 | 24 | 2 | 5 | s. | C. G. Cogizer. |
| McCook. | York. | 1,575 | | | | | | | | | | | | | | | | | L. L. Slagle. | |
| McCool Junction. | Madison. | 1,585 | 15 | 50.8 | 0.0 | 85 | 5 | 22 | 13 | 37 | 1.43 | - 0.50 | 0.70 | T. | 4 | 17 | 5 | 9 | se. | Dr. F. A. Long. |
| Madison. | Hamilton. | 1,830 | | | | | | | | | | | | | | | | | John Ellis. | |
| Marquette. | Mason City. | 2,257 | | | | | | | | | | | | | | | | | J. A. Amsberry. | |
| Minden. | Kearney. | 2,169 | 26 | 51.9 | - 0.3 | 90 | 27 | 18 | 12 | 41 | 3.06 | + 0.93 | 1.31 | T. | 0 | 6 | 16 | 9 | nw. | Joel Hull. |
| Mitchell. | Scottsbluff. | 1 | | | | | | | | | | | | | | | | | U. S. Reclamation Service | |
| Monroe. | Platte. | 1,525 | | | | | | | | | | | | | | | | | Wm. Webster. | |
| Nebraska City. | Otoe. | 941 | 27 | 54.2 | + 0.6 | 90 | 3 | 22 | 13 | 43 | 0.34 | - 2.46 | 0.32 | T. | 6 | 17 | 8 | 6 | s. | Agent, C. B. & Q. R. R. |
| Northfolk. | Madison. | 1,532 | 24 | 49.9 | - 0.6 | 88 | 2 | 17 | 13 | 42 | 1.98 | + 0.35 | 1.12 | T. | 5 | 19 | 8 | 4 | sw. | Dr. P. H. Salter. |
| North Loup. | Valley. | 1,961 | 21 | 51.8 | + 0.4 | 91 | 27 | 19 | 12 | 48 | 0.98 | - 0.69 | 0.75 | T. | 3 | 18 | 9 | 4 | sw. | W. G. Rood. |
| North Plate. | Lincoln. | 2,841 | 35 | 51.4 | + 1.4 | 88 | 3 | 12 | 12 | 47 | 0.20 | - 0.05 | 0.19 | T. | 3 | 23 | 6 | 2 | nw. | U. S. Weather Bureau. |
| Oakdale. | Antelope. | 1,722 | 21 | 48.2 | - 1.3 | 86 | 5 | 18 | 13 | 39 | 1.89 | + 0.33 | 1.16 | T. | 2 | 14 | 11 | 6 | nw. | G. S. Clingman. |
| Odell. | Gage. | 1,278 | | | | | | | | | | | | | | | | | Agent, C. B. & Q. R. R. | |
| Omaha. | Douglas. | 1,103 | 39 | 53.6 | - 0.6 | 89 | 2 | 26 | 13 | 32 | 1.70 | - 0.65 | 1.38 | T. | 6 | 14 | 6 | 11 | nw. | U. S. Weather Bureau. |
| Ordn. | Valley. | 2,062 | | | | | | | | | | | | | | | | | James Millford. | |
| Orleans. | Harlan. | 1,993 | | | | | | | | | | | | | | | | | James McGeachin. | |
| Osceola. | Polk. | 1,644 | | 49.5 ^h | | 85 | 27 | 12 | 50 | | 2.36 | - 0.03 | 1.05 | T. | 4 | | | | | |
| Palmyra. | Otoe. | 1,142 | 11 | 54.0 | + 0.8 | 90 | 27 | 26 | 12 | 46 | 1.43 | - 0.63 | 0.70 | T. | 4 | 17 | 9 | 5 | nw. | Thos. Coles. |
| Pawnee City. | Pawnee. | 1,175 | 6 | 53.6 | | 92 | 37 | 25 | 12 | 46 | 1.19 | - 1.45 | 0.46 | T. | 4 | 19 | 12 | 10 | s. | F. A. Barton. |
| Plymouth. | Jefferson. | 1,419 | 5 | 53.4 | | 90 | 3 | 23 | 12 | 43 | 0.40 | | 0.20 | T. | 3 | 13 | 8 | 10 | sw. | John Ruppel. |
| Purdum. | Blaine. | 8 | 49.7 | | | 90 | 5 | 11 | 12 | 53 | 0.43 | | 0.43 | T. | 0 | 21 | 3 | 8 | nw. | T. C. Jackson. |
| Ravenna. | Buffalo. | 2,028 | 20 | 51.6 | - 0.4 | 91 | 3 | 16 | 12 | 49 | 1.52 | - 0.24 | 0.84 | T. | 3 | 15 | 10 | 8 | nw. | Erastus Smith. |
| Redcloud. | Webster. | 1,687 | 13 | 53.8 | + 0.4 | 91 | 3 | 21 | 12 | 47 | 1.56 | - 0.08 | 1.10 | T. | 5 | 19 | 5 | 7 | nw. | C. S. Ludlow. |
| St. Libery. | Howard. | 1,887 | | | | | | | | | | | | | | | | | W. I. Meader. | |
| St. Paul. | Knox. | 1,796 | 15 | 52.0 | - 1.2 | 90 | 27 | 19 | 12 | 43 | 1.33 | - 0.65 | 0.83 | T. | 4 | 21 | 6 | 4 | sw. | Paul Anderson. |
| Santee | | | | | | | | | | | | | | | | | | | | |

TABLE 1.—Climatological data for October, 1909. District No. 6—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | | | Sky. | Prevailing wind direction. | Observers. | | |
|---------------------------------|----------------|------------------|------------------------|-------------------------------------|----------------------------|-----------------|----------------|-----------------|-------|---------------------------|-------|-----------------------|--------|----------------------------|-----------------------|-------------------------|-----------------------------------------|---------------|-------------------------|--|
| | | | | Mean. | Departure from the normal. | | | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmeted. | Number of rainy days, 0.1 inch or more. | | | |
| | | | | | Highest. | Date. | Lowest. | | | | | | | | | | | | | |
| <i>Nebraska—Cont'd.</i> | | | | | | | | | | | | | | | | | | | | |
| Wauneta. | Chase. | 1,080 | 3 | 52.08 | 95 ^b | 3 | 20 | 13 | 48 | 0.90 | -0.39 | 0.34 | T. | 5 | 18 | 5 | nw. | G. D. Fuller. | | |
| Weepingwater. | Cass. | 1,313 | 13 | 50.0 | -3.7 | 90 | 2 | 16 | 13 | 44 | 1.98 | +0.17 | 0.90 | T. | 4 | 18 | 5 | s. | S. W. Orton. | |
| Westpoint. | Cuming. | 1,325 | 13 | 50.0 | | | | | | | 0.30 | -1.96 | 0.30 | T. | 1 | 9 | 6 | se. | J. C. Elliott. | |
| Wilber. | Saline. | 1,330 | 13 | 50.0 | | | | | | | 1.74 | -0.81 | 0.46 | T. | 0 | 6 | 6 | sw. | Agent, C. B. & Q. R. R. | |
| Wlmer. | Cuming. | 1,330 | 13 | 50.0 | | | | | | | 0.46 | | 0.26 | T. | 4 | 15 | 7 | ne. | Aoff & Deily. | |
| Woodlawn. | Lancaster. | 1,186 | 17 | 53.6 | -0.3 | 94 | 3 | 22 | 12 | 45 | 1.82 | -0.37 | 1.10 | T. | 4 | 18 | 5 | 7 | H. C. Kendall. | |
| York. | York. | 1,606 | 17 | 53.6 | -0.3 | 94 | 2 ^c | 19 | 13 | 37 | 3.50 | +0.88 | 1.05 | T. | 8 | 17 | 7 | 7 | H. T. Giandue. | |
| <i>Iowa.</i> | | | | | | | | | | | | | | | | | | | | |
| Afton. | Union. | 1,212 | 14 | 50.9 | -2.4 | 86 | 2 ^c | 19 | 13 | 37 | 3.50 | +0.88 | 1.05 | T. | | | | sw. | N. W. Rowell. | |
| Allerton. | Wayne. | 1,513 | 17 | 51.2 | -3.0 | 90 ^c | 2 ^c | 19 ^c | 13 | 39 ^c | | | | T. | | | | sw. | Mrs. Geo. Shriner. | |
| Alta ^d . | do. | 6 | | | | | | | | | | | | | | | | | David E. Hadden. | |
| Alton. | Sioux. | 1,305 | 3 | 49.6 | -0.3 | 84 | 2 | 15 | 13 | 36 | 1.43 | | 0.58 | T. | 6 | 18 | 5 | 8 | W. J. Minard. | |
| Atlantic. | Cass. | 1,164 | 17 | 51.3 | -2.2 | 87 | 2 | 18 | 13 | 38 | 2.90 | +0.38 | 0.80 | T. | 7 | 11 | 4 | 10 | W. S. Slagle. | |
| Audubon ^d . | Audubon. | 1,301 | 15 | 48.7 | -2.2 | 83 | 2 | 14 | 13 | 43 | 2.38 | +0.22 | 0.74 | T. | 9 | 17 | 5 | 6 | Geo. E. Kellogg. | |
| Bedford. | Taylor. | 8 | 52.0 | | | 89 | 4 | 15 | 13 | 42 | 3.04 | | 0.71 | T. | 5 | 6 | 6 | se. | E. E. Healy. | |
| Chariton ^d . | Lucas. | 1,042 | 13 | 51.2 | -3.0 | 91 | 3 | 18 | 13 | 41 | 2.14 | -0.22 | 1.13 | T. | 8 | 19 | 3 | 9 | H. S. Van Sandt. | |
| Clarinda. | Page. | 1,009 | 18 | 51.6 | -2.4 | 91 | 2 ^c | 20 | 12 | 49 | 2.73 | +0.28 | 1.06 | T. | 10 | 18 | 3 | 10 | Jerome Smith. | |
| Corning ^d . | Adams. | 1,117 | 16 | 50.1 ^a | -3.2 | 87 ^a | 3 | 18 ^a | 13 | 36 ^a | 3.16 | +0.83 | 0.80 | T. | 6 | 21 | 1 | 9 | Clara Miller. | |
| Corydon ^d . | Wayne. | 1,101 | 15 | 52.9 | -1.9 | 92 | 3 | 19 | 13 | 38 | 2.39 | -0.10 | 1.13 | T. | 10 | 18 | 3 | 10 | Edgar Stovall. | |
| Creston. | Union. | 1,312 | 3 | 51.6 | | 88 | 3 ^c | 16 | 13 | 46 | 2.99 | | 0.90 | T. | 8 | 14 | 7 | 10 | J. H. Reppert. | |
| Cumberland. | Cass. | | | | | | | | | | 4.70 | | 1.18 | T. | 6 | 22 | 2 | 7 | W. C. Van Ness. | |
| Denison. | Crawford. | 1,180 | 13 | 50.6 | -0.2 | 86 | 2 | 14 | 13 | 37 | 1.71 | -0.32 | 0.70 | T. | 8 | 21 | 4 | 6 | Henry Barnes. | |
| Elliot. | Montgomery. | | | | | | | | | | 3.07 | | 0.75 | T. | 8 | 19 | 5 | 7 | G. C. Rogers. | |
| Hancock ^d . | Pottawattamie. | 1,113 | 2 | 51.0 | | 86 | 2 | 18 | 13 | 41 | 2.15 | | 0.75 | T. | 0 | 6 | 8 | se. | C. A. Reynolds. | |
| Harlan ^d . | Shelby. | 1,192 | 9 | 50.0 | | 86 | 2 | 15 | 13 | 40 | 1.81 | | 0.55 | T. | 2 | 7 | 12 | 10 | M. T. Ashley. | |
| Hopeville. | Clarke. | 17 | 51.8 | -2.4 | 90 | 2 ^c | 18 | 13 | 40 | 3.26 | +1.02 | 1.12 | T. | 8 | 14 | 7 | 10 | F. B. Hanson. | | |
| Inwood ^d . | Lyon. | 1,474 | 4 | 49.0 ^a | | 83 ^a | 5 ^c | 12 | 13 | 36 ^a | 2.27 | | 0.67 | T. | 6 | 22 | 1 | 15 | T. J. Fitzpatrick. | |
| Lamoni. | Decatur. | | | | | | | | | | 3.63 | | 1.92 | T. | 9 | 15 | 4 | 4 | H. B. Strever. | |
| Larrabee. | Cherokee. | 1,266 | 17 | 48.2 | -2.1 | 81 | 2 ^c | 14 | 13 | 40 | 2.58 | +0.46 | 0.85 | T. | 4 | 18 | 9 | 4 | G. A. C. Clarke. | |
| Le Mars ^d . | Plymouth. | 1,224 | 12 | 49.2 | -2.1 | 78 | 5 ^c | 15 | 13 | 34 | 1.91 | +0.02 | 0.75 | T. | 5 | 12 | 10 | 9 | J. L. Hurley. | |
| Lenox ^d . | Taylor. | 1,250 | 13 | 51.4 | -2.2 | 85 | 3 | 17 | 13 | 36 | 2.03 | +0.40 | 0.87 | T. | 8 | 18 | 4 | 9 | Morris Gardner. | |
| Leon. | Decatur. | 1,120 | 6 | 51.2 | | 85 | 3 | 20 | 13 | 38 | 3.20 | | 1.50 | T. | 6 | 17 | 5 | 9 | Geo. H. Gibson. | |
| Little Sioux ^d . | Harrison. | 4 | 52.4 | | | 90 | 2 | 17 | 13 | 40 | 1.69 | | 0.58 | T. | 4 | 12 | 7 | se. | Glen H. Stern. | |
| Logans. | do. | 938 | 42 | 51.5 | -0.6 | 87 | 2 ^c | 17 | 13 | 36 | 1.02 | +1.37 | 0.75 | T. | 4 | 12 | 12 | se. | A. F. Beard. | |
| Mt. Ayr ^d . | Ringgold. | 1,236 | 15 | 52.6 | -2.3 | 88 | 2 ^c | 21 | 13 | 37 | 4.32 | +2.06 | 1.00 | T. | 10 | 15 | 9 | 7 | E. Starner. | |
| Odebolt. | Sac. | 1,356 | 10 | 50.0 | -2.9 | 87 | 2 | 15 | 13 | 37 | 1.71 | -0.34 | 0.83 | T. | 4 | 18 | 4 | 9 | C. G. Perkins. | |
| Onawa. | Monona. | 1,051 | 8 | 52.5 | | 88 | 2 | 20 | 13 | 36 | 3.73 | | 1.98 | T. | 7 | | | sw. | H. H. McCartney. | |
| Pacific Junction ^d . | Mills. | 960 | 9 | 51.0 | | 86 | 2 | 18 | 13 | 38 | 1.83 | | 1.53 | T. | 4 | 16 | 11 | 4 | W. C. Wyckoff. | |
| Rock Rapids ^d . | Lyon. | 1,358 | 9 | 51.0 | | 92 | 3 | 15 | 13 | 45 | 3.03 | | 1.37 | T. | 8 | | | | Dr. A. W. Beach. | |
| Sheldon ^d . | O'Brien. | 1,422 | 8 | 49.2 | | 85 | 2 | 12 | 13 | 42 | 1.90 | | 0.80 | T. | 6 | 19 | 2 | 10 | Francis C. Doolittle. | |
| Sibley. | Osceola. | 1,212 | 15 | 45.8 | -3.8 | 84 ^a | 6 | 14 ^a | 13 | 37 | 1.41 | +0.68 | 0.55 | T. | 4 | 14 | 6 | 11 | J. Deruyter. | |
| Sioux Center ^d . | Sioux. | 9 | 48.6 | | | 81 | 2 ^c | 13 | 13 | 34 | 1.59 | | 0.55 | T. | 6 | 13 | 7 | 11 | U. S. Weather Bureau. | |
| Sioux City. | Woodbury. | 1,135 | 20 | 50.6 | -0.5 | 87 | 2 | 17 | 13 | 37 | 1.63 | -0.16 | 0.68 | T. | 6 | 15 | 6 | 10 | C. R. Paul. | |
| Thurman ^d . | Fremont. | 11 | 52.4 | -2.4 | 87 | 2 ^c | 20 | 13 | 40 | 1.34 | -1.83 | 0.42 | T. | 5 | 15 | 6 | 10 | H. L. Felter. | | |
| Waabs ^d . | Cherokee. | 1,157 | 10 | 49.6 | | 87 | 6 ^c | 10 | 13 | 46 | 3.39 | +1.30 | 1.50 | T. | 4 | 18 | 5 | 8 | C. B. McDonough. | |
| Woodburn ^d . | Clarke. | 961 | 9 | 50.6 | | 92 | 3 | 15 | 13 | 45 | 3.03 | | 1.37 | T. | 8 | 6 | 7 | se. | J. H. Sherman. | |
| Abilene. | Dickinson. | 1,187 | 14 | 56.9 | +1.6 | 94 | 5 | 26 | 12 | 47 | 1.04 | -1.20 | 0.44 | T. | 4 | 14 | 10 | 7 | J. O. Hamilton. | |
| Agricultural College. | Riley. | 1,100 | 51 | 56.9 | | 94 | 5 | 26 | 12 | 47 | 1.60 | -0.71 | 0.89 | T. | 6 | 18 | 8 | 5 | H. A. Storer. | |
| Altom. | Osborne. | 1,651 | 7 | 55.2 | | 95 | 3 | 21 | 12 | 49 | 1.32 | -0.38 | 0.63 | T. | 0 | 5 | 18 | 6 | M. F. Troxell. | |
| Atholton. | Atchison. | 973 | 18 | 56.6 | -0.4 | 89 | 2 ^c | 26 | 12 | 35 | 1.85 | -0.86 | 0.71 | T. | 0 | 6 | 16 | 1 | E. A. Bastien. | |
| Baker. | Brown. | 1,182 | 9 | 53.1 | | 89 | 3 ^c | 28 | 24 | 39 | 1.20 | | 0.80 | T. | 3 | 12 | 1 | 18 | W. H. Houghton. | |
| Beloit. | Mitchell. | 1,333 | 14 | 52.6 | | 94 | 2 ^c | 17 | 12 | 52 | 1.31 | | 0.80 | T. | 0 | 4 | 20 | 4 | C. L. Henderson. | |
| Blakeman. | Rawlins. | 2,894 | 1 | 52.6 | | 92 | 2 | 15 | 12 | 62 | 0.85 | -0.85 | 0.70 | T. | 3 | 21 | 4 | 6 | M. Norton. | |
| Blue Rapids. | Marshall. | 1,105 | 3 | | | | | | | | | | | T. | 5 | 19 | 0 | 12 | L. E. Hasen. | |
| Centralia. | Nemaha. | 1,256 | 5 | 54.2 | | 89 | 2 ^c | 24 | 12 | 38 | 1.73 | | 0.69 | T. | 6 | 6 | 5 | se. | R. McShea. | |
| Chapman. | Dickinson. | 1,123 | 5 | 56.4 | | 93 | 1 ^c | 19 | 12 | 48 | 1.78 | | 0.80 | T. | 0 | 4 | 20 | 5 | O. L. Slade. | |
| Clay Center. | Clay. | 1,203 | 18 | 56.0 | | 96 | 3 | 22 | 12 | 49 | 1.22 | | 0.65 | T. | 3 | 21 | 3 | 7 | R. M. Chef. | |
| Colby. | Thomas. | 1,338 | 18 | 54.1 | +1.0 | 90 | 2 | 19 | 12 | 50 | 0.70 | -0.40 | 0.60 | T. | 5 | 15 | 11 | 5 | U. S. Weather Bureau. | |
| Concordia. | Cloud. | 1,398 | 25 | 55.8 | +0.4 | 90 | 3 | 25 | 12 | 39 | 2.80 | +0.80 | 2.12 | T. | 5 | 15 | 11 | 5 | F. S. Griffith. | |
| Denmore. | Norton. | 2,200 | 1 | 55.4 | | 94 | 2 ^c | 17 | 12 | 52 | 1.31 | | 0.80 | T. | 0 | 4 | 20 | 4 | Jacob Book. | |
| Dresden. | Decatur. | 2,731 | 15 | 54.9 | -0.1 | 90 | 2 | 20 | 12 | 48 | 0.88 | | 0.72 | T. | 0 | 4 | 23 | 5 | George Seita. | |
| Ellsworth. | Ellsworth. | 1,537 | 7 | 56.8 ^a | | 96 | 3 | 27 | 12 | 48 | 1.25 | -0.99 | 0.61 | T. | 3 | 19 | 6 | 6 | G. F. Wagner. | |
| Enterprise. | Dickinson. | 1,144 | 7 | 57.7 | | 90 | 3 | 27 | 12 | 48 | 1.25 | -0.99 | 0.61 | T. | 0 | 5 | 26 | 2 | C. M. Jennison. | |
| Eskridge. | Wabaunsee. | 1,412 | 3 | 57.2 | | 90 | 3 | 23 | 12 | 48 | 1.35 | -0.77 | 0.77 | T. | 2 | 18 | 6 | 7 | E. A. Shaver. | |
| Farmsworth. | Lane. | 2,850 | 8 | 55.4 ^a | | 90 ^a | 2 | 17 ^a | 12 | 52 ^a | 0.64 | | 0.48 | T. | 0 | 6 | 23 | 0 | E. C. Dunham. | |
| Ft. Scott. | Bourbon. | 857 | 13 | 57.2 | -1.8 | 94 | 4 | 23 | 12 | 48 | 2.83 | +0.53 | 1.44 | T. | 2 | 14 | 12 | 5 | J. S. McCartney. | |
| Frankfort. | Marshall. | 1,146 | 15 | 55.4 | -2.2 | 93 | 4 | 25 | 12 | 49 | 0.90 | -1.64 | 0.80 | T. | 0 | 5 | 17 | 11 | G. L. Calvert. | |
| Garnett. | Anderson. | 950 | 3 | | | 95 | 5 | | | </ | | | | | | | | | | |

TABLE 1.—Climatological data for October, 1909. District No. 6—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs. | Temperature, in degrees Fahrenheit. | | | | | | Precipitation, in inches. | | | | Number of clear days. | Number of partly cloudy days. | Number of cloudy days. | Prevailing wind direction. | Observers. | |
|------------------------|-------------------|------------------|------------------------|-------------------------------------|----------------------------|-----------------|-------|-----------------|-------|---------------------------|-------------------|----------------------------|-----------------------|-------------------------|-------------------------------|------------------------|----------------------------|----------------------|-----|
| | | | | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total annual unmelting. | | | | | |
| Kansas—Cont'd. | | | | | | | | | | | | | | | | | | | |
| Scott..... | Scott..... | 2,971 | 3 | 55.8 | | 92 | 2 | 23 | 12 | 66 | 0.53 | -0.56 | 0.30 | T. 3 | 18 | 7 | 6 | s. | |
| Topeka..... | Shawnee..... | 997 | 23 | 56.6 | + 0.3 | 91 | 2 | 27 | 12 | 35 | 1.35 | -0.52 | 0.78 | T. 0 | 5 | 17 | 6 | s. | |
| Valley Falls..... | Jefferson..... | 913 | 10 | 56.3 | + 0.2 | 90 | 2† | 26 | 12 | 38 | 1.49 | -0.52 | 0.88 | T. 5 | 17 | 6 | 8 | se. | |
| Vinland..... | Douglas..... | 880 | 5 | 56.9 | | 91 | 3 | 25 | 24 | 40 | 1.92 | -0.52 | 0.87 | T. 0 | 4 | 15 | 4 | 12 | s. |
| Wakeeney..... | Trego..... | 2,456 | 5 | 55.6 | + 0.3 | 89 | 2 | 19 | 12 | 48 | 1.41 | + 0.02 | 0.88 | T. 0 | 4 | 23 | 1 | 7 | s. |
| Wallace..... | Wallace..... | 3,303 | 39 | 54.2 | | 91 | 2 | 20 | 12 | 57 | 0.36 | -0.08 | 0.66 | T. 2 | 10 | 15 | 6 | nw. | |
| Wamego..... | Pottawatomie..... | 1,002 | 16 | | | | | | | | 2.31 | + 0.23 | 1.35 | T. 4 | 14 | 5 | 12 | sw. | |
| Missouri | | | | | | | | | | | | | | | | | | | |
| Albany..... | Gentry..... | | 2 | | | | | | | | 2.50 | | 1.30 | T. 5 | 20 | 3 | 8 | s. | |
| Amoret..... | Bates..... | 850 | 0 | 57.8 | | 93 | 5 | 25 | 12 | 53 | 0.56 | -0.22 | 0.0 | T. 5 | 23 | 0 | 8 | s. | |
| Appleton City..... | St. Clair..... | 853 | 18 | 59.6 | + 0.7 | 96 | 4† | 23 | 12 | 53 | 1.10 | -1.28 | 0.70 | T. 0 | 2 | 20 | 8 | 3 | s. |
| Arlington..... | Phelps..... | 695 | 23 | | | | | | | | | | | | | | | | |
| Arthur..... | Vernon..... | 767 | 16 | 59.6 | + 3.5 | 95 | 5 | 25 | 12 | 60 | 2.04 | -0.13 | 0.62 | T. 0 | 4 | 19 | 3 | 4 | sw. |
| Avalon..... | Livingston..... | 594 | 24 | 55.2 | - 2.9 | 92 | 2 | 25 | 12 | 42 | 5.53 | + 2.07 | 2.50 | T. 0 | 7 | 17 | 5 | 9 | sw. |
| Bagnell..... | Miller..... | | 14 | | | | | | | | | | | | | | | | |
| Bethany..... | Harrison..... | 881 | 19 | 54.6 | - 2.7 | 84 | 8 | 24 | 13 | 32 | 2.91 | + 0.50 | 1.32 | T. 8 | 19 | 5 | 7 | se. | |
| Bolivar..... | Polk..... | 1,070 | 21 | 60.0 | + 2.0 | 94 | 5 | 25 | 12 | 48 | 4.36 | + 1.73 | 2.09 | T. 0 | 8 | 17 | 9 | 5 | sw. |
| Boonville..... | Cooper..... | 600 | 33 | | | | | | | | | | | | | | | | |
| Brunswick..... | Charlton..... | 651 | 30 | 54.8 | - 1.6 | 92 | 2 | 28 | 13 | 40 | 5.18 | + 2.40 | 1.43 | T. 0 | 8 | 17 | 3 | 10 | se. |
| Clinton..... | Henry..... | 800 | 7 | 58.8 | | 93 | 3† | 25 | 12 | 43 | 3.10 | -0.56 | 0.0 | T. 0 | 5 | 20 | 8 | 3 | s. |
| Columbia..... | Boone..... | 784 | 18 | 55.6 | + 0.8 | 90 | 2 | 25 | 13 | 39 | 4.70 | + 2.28 | 1.55 | T. 13 | 18 | 5 | 7 | se. | |
| Conception §..... | Nodaway..... | 932 | 24 | 53.7 | - 1.8 | 89 | 3 | 25 | 12 | 34 | 2.14 | -0.39 | 0.60 | T. 6 | 12 | 10 | 9 | nw. | |
| Darkerville..... | Randolph..... | 828 | 18 | 54.9 | - 2.1 | 88 | 2 | 24 | 13 | 34 | 5.25 | + 3.00 | 2.20 | T. 0 | 6 | 16 | 6 | 9 | sw. |
| El Dorado Springs..... | Cedar..... | 750 | 3 | 59.9 ^a | | 95 ^a | 2† | 23 | 12 | 46 ^a | 2.52 ^a | -0.95 ^a | 0.0 | T. 4 ^a | 18 ^a | 5 ^a | 7 ^a | sw. | |
| Fairport..... | De Kalb..... | 920 | 15 | | | | | | | | 2.22 | -0.0 | 1.02 | T. 6 | 20 | 3 | 8 | sw. | |
| Fayette §..... | Howard..... | 725 | 26 | 54.0 | - 3.1 | 87 | 2† | 25 | 12 | 35 | 4.25 | + 1.92 | 1.49 | T. 0 | 7 | 18 | 3 | 10 | sw. |
| Fulton..... | Galloway..... | 818 | 18 | 56.0 | - 1.8 | 94 | 2 | 21 | 13 | 51 | 4.31 | + 1.93 | 2.30 | T. 0 | 9 | 9 | 9 | 17 | sw. |
| Gallatin..... | Davies..... | 803 | 16 | | | | | | | | 2.53 | -0.08 | 0.75 | T. 0 | 6 | 21 | 4 | 6 | sw. |
| Glasgow..... | Howard..... | 813 | 30 | | | | | | | | | | | | | | | J. J. Shaughnessy. | |
| Grant City..... | Worth..... | 1,130 | 17 | 53.4 ^b | | 89 ^b | 3 | 22 ^b | 13 | 35 ^b | 2.97 ^b | + 0.40 | 0.86 ^b | T. b | 8b | 21b | 3b | 6b | s. |
| Harrisonville..... | Cass..... | 912 | 37 | 56.2 | + 0.3 | 90 | 2 | 25 | 12 | 41 | 1.42 | -1.19 | 0.62 | T. 0 | 5 | 17 | 5 | 9 | sw. |
| Haselhurst..... | Livingston..... | | 16 | | | | | | | | 3.41 | + 1.63 | 1.45 | T. 0 | 8 | 16 | 6 | 9 | sw. |
| Hermann..... | Gaseonade..... | 482 | 35 | | | | | | | | 4.81 | + 2.39 | 2.24 | T. 0 | 10 | 16 | 8 | 8 | e. |
| Houston..... | Texas..... | 1,280 | 17 | 57.5 | + 0.5 | 91 | 3† | 25 | 13 | 45 | 1.65 | -0.67 | 0.65 | T. 0 | 4 | 15 | 14 | 2 | s. |
| Huntsville..... | Randolph..... | 790 | 6 | | | | | | | | 4.10 | -0.0 | 1.50 | T. 0 | | | | | |
| Jefferson City..... | Cole..... | 628 | 27 | 55.4 | - 1.3 | 95 | 2 | 25 | 13 | 51 | 3.19 | + 1.05 | 1.91 | T. 0 | 8 | 25 | 1 | 5 | n. |
| Kansas City..... | Jackson..... | 963 | 21 | 57.3 | + 1.5 | 89 | 2† | 28 | 12 | 34 | 0.97 | -1.24 | 0.40 | T. 6 | 16 | 7 | 8 | nw. | |
| Kidder..... | Caldwell..... | 1,017 | 16 | 55.2 | - 0.7 | 88 | 2 | 26 | 12 | 33 | 2.44 | -0.21 | 1.23 | T. 0 | 8 | 16 | 6 | 9 | sw. |
| Lamonte..... | Pettis..... | 863 | 21 | 57.3 | | 93 | 2 | 25 | 12 | 43 | 4.06 | + 2.92 | 2.57 | T. 6 | 15 | 8 | 8 | sw. | |
| Leesbon..... | Laclede..... | 1,265 | 20 | 59.4 | + 1.0 | 90 | 3† | 26 | 12 | 37 | 2.31 | -0.29 | 1.10 | T. 0 | 3 | 17 | 7 | nw. | |
| Lexington..... | Lafayette..... | 813 | 27 | 57.1 | - 0.4 | 90 | 3† | 28 | 12 | 40 | 2.75 | + 0.11 | 1.14 | T. 0 | 6 | 22 | 0 | 9 | s. |
| Liberty..... | Clay..... | 864 | 21 | 57.2 | + 0.1 | 90 | 2† | 27 | 12 | 42 | 1.04 | -1.20 | 0.50 | T. 4 | 21 | 2 | 3 | nw. | |
| Lockwood..... | Dade..... | 1,088 | 14 | 60.3 | | 91 | 2† | 24 | 12 | 39 | 2.97 | -0.02 | 1.23 | T. 0 | 4 | 19 | 4 | 8 | sw. |
| Marshall..... | Webster..... | 1,492 | 0 | | | | | | | | | | | | | | | | |
| Marshfield..... | Maryville..... | 1,180 | 19 | 52.1 | - 1.4 | 90 | 3 | 23 | 13 | 43 | 1.56 | -0.90 | 0.83 | T. 0 | 5 | 18 | 2 | 11 | e. |
| Mt. Vernon..... | Lawrence..... | 1,480 | 33 | 59.6 | + 0.3 | 91 | 2† | 27 | 13 | 45 | 3.69 | + 0.38 | 1.33 | T. 0 | 7 | 19 | 6 | 6 | se. |
| Nevada..... | Vernon..... | 869 | 15 | | | | | | | | 2.59 | + 0.16 | 0.88 | T. 4 | 23 | 5 | 3 | sw. | |
| New Palestine..... | Cooper..... | 795 | 17 | 59.4 | + 0.2 | 96 | 3 | 25 | 13 | 47 | 4.96 | + 2.61 | 1.68 | T. 5 | 18 | 8 | 5 | 5 | sw. |
| Oregon..... | Holt..... | 1,113 | 54 | 52.9 | - 2.0 | 86 | 2 | 23 | 12 | 34 | 2.56 | -0.08 | 1.02 | T. 7 | 18 | 1 | 12 | nw. | |
| Osceola..... | St. Clair..... | 738 | 9 | | | | | | | | 2.98 | -0.35 | 0.0 | T. 0 | 3 | 23 | 3 | 5 | sw. |
| Parkville..... | Platte..... | | 0 | | | | | | | | | | | | | | | | |
| Rolla..... | Phelps..... | 1,092 | 28 | 58.4 | | 91 | 2† | 27 | 12 | 40 | 2.23 | -0.17 | 0.97 | T. 0 | 5 | 20 | 3 | 8 | sw. |
| St. Charles..... | St. Charles..... | 614 | 31 | 56.3 | - 1.3 | 91 | 3 | 26 | 13 | 35 | 3.73 | + 1.35 | 1.64 | T. 0 | 4 | 17 | 8 | 6 | s. |
| St. Joseph..... | Buchanan..... | 823 | 37 | 56.4 | | 92 | 4 | 27 | 12 | 38 | 0.98 | -1.65 | 0.48 | T. 0 | 6 | 19 | 6 | 6 | se. |
| St. Louis..... | Sublett..... | 567 | 39 | 56.4 | - 2.0 | 87 | 3 | 32 | 12 | 30 | 3.40 | + 0.99 | 1.44 | T. 11 | 17 | 8 | 6 | nw. | |
| Trenton..... | Adair..... | 1,000 | 29 | | | | | | | | | | | | | | | U. S. Weather Bureau | |
| Unionville..... | Grundy..... | 812 | 14 | 53.7 | - 2.6 | 85 | 3 | 27 | 12 | 38 | 3.28 | + 1.08 | 2.30 | T. 8 | 13 | 5 | 13 | se. | |
| Versailles..... | Putnam..... | 1,072 | 16 | 51.8 | - 3.6 | 90 | 2 | 26 | 13 | 40 | 3.51 | + 1.58 | 1.40 | T. 9 | 2 | 11 | 1 | 1 | s. |
| Warrensburg..... | Morgan..... | 1,021 | 8 | | | | | | | | | | | | | | | Grant Forbes. | |
| Warrenton..... | Johnson..... | 883 | 30 | 58.8 | + 1.0 | 92 | 2† | 25 | 12 | 39 | 2.97 | + 0.43 | 1.03 | T. 0 | 7 | 20 | 3 | 8 | sw. |
| Warsaw..... | Warren..... | 868 | 19 | 54.3 | - 1.1 | 87 | 3 | 26 | 13 | 41 | 3.81 | + 1.38 | 1.50 | T. 0 | 9 | 16 | 7 | 8 | s. |
| Wheatland..... | Benton..... | 700 | 5 | 60.0 ^c | | 93 ^c | 2† | 26 ^c | 12 | 45 ^c | 4.83 | -2.07 | 0.0 | T. 0 | 4 | 19 ^c | 5 ^c | 4 ^c | sw. |
| | Hickory..... | 920 | 17 | | | | | | | | 4.46 | + 2.17 | 2.16 | T. 0 | 5 | 19 | 5 | 7 | s. |

* Precipitation included in that of the next measurement.

** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.

† Also on other dates.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

|| Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Estimate by observer.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

*, †, ‡, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

Prof. S. F. Prince.

John H. Frick.

Dr. J. R. Smith,

Mrs. S. A. Jackson.

TABLE 2.—*Daily precipitation for October, 1909. District No. 6, Missouri Valley.*

TABLE 2.—*Daily precipitation for October, 1909. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for October, 1909. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for October, 1909. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for October, 1909.* District No. 6—Continued.

TABLE 2.—*Daily precipitation for October, 1909. District No. 6—Continued.*

TABLE 3.—Maximum and minimum temperatures at selected stations, October, 1909. District No. 6, Missouri Valley.

| Date | Wyoming. | | | | | | | | | | | | Montana. | | | | | | | | | | | | | | | | |
|-------|----------|------|-----------|------|---------------|------|---------|------|-------------------|-------------------|-------------|------|-----------|------|-------------------|------|-------------------|------|---------|------|--------|------|---------|------|-------------------|-------------------|--------|------|----|
| | Basin. | | Cheyenne. | | Fort Laramie. | | Lander. | | Newcastle. | | Pathfinder. | | Sheridan. | | Yellowstone Park. | | Billings. | | Dillon. | | Havre. | | Helena. | | Livingston. | | Malta. | | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | |
| 1... | 70 | 33 | 68 | 44 | 73 | 44 | 63 | 28 | 70 | 48 | 73 | 39 | 66 | 31 | 56 | 29 | 64 | 32 | 64 | 30 | 62 | 40 | 59 | 33 | 76 | 45 | 62 | 41 | |
| 2... | 66 | 40 | 77 | 40 | 85 | 34 | 76 | 37 | 65 | 43 | 73 | 40 | 65 | 33 | 67 | 34 | 66 | 29 | 69 | 30 | 58 | 36 | 71 | 42 | 72 | 35 | 42 | | |
| 3... | 68 | 40 | 76 | 43 | 81 | 38 | 78 | 38 | 60 | 38 | 74 | 42 | 76 | 39 | 66 | 40 | 73 | 35 | 68 | 39 | 48 | 73 | 43 | 68 | 33 | 73 | 42 | | |
| 4... | 74 | 50 | 72 | 45 | 78 | 48 | 70 | 40 | 67 | 32 | 82 | 47 | 77 | 50 | 63 | 39 | 79 | 33 | 70 | 30 | 71 | 46 | 63 | 45 | 68 | 39 | 73 | 44 | |
| 5... | 76 | 50 | 75 | 47 | 86 | 48 | 70 | 37 | 68 | 35 | 79 | 41 | 78 | 47 | 60 | 34 | 78 | 40 | 71 | 31 | 77 | 45 | 65 | 38 | 77 | 42 | 73 | 38 | |
| 6... | 76 | 40 | 71 | 45 | 81 | 48 | 83 | 34 | 72 | 40 | 81 | 42 | 73 | 44 | 54 | 33 | 78 | 36 | 67 | 36 | 72 | 48 | 60 | 41 | 35 | 75 | 40 | 73 | 40 |
| 7... | 66 | 36 | 55 | 31 | 60 | 49 | 56 | 21 | 70 | 38 | 70 | 35 | 52 | 37 | 43 | 21 | 55 | 34 | 63 | 33 | 53 | 34 | 45 | 35 | 55 | 32 | 63 | 44 | |
| 8... | 53 | 29 | 40 | 23 | 55 | 32 | 44 | 16 | 62 | 36 | 51 | 35 | 50 | 23 | 42 | 16 | 56 | 31 | 69 | 37 | 54 | 33 | 50 | 29 | 55 | 32 | 69 | 33 | |
| 9... | 60 | 28 | 53 | 19 | 60 | 18 | 60 | 22 | 56 | 27 | 56 | 24 | 65 | 57 | 13 | 59 | 30 | 74 | 34 | 76 | 35 | 67 | 43 | 62 | 43 | 69 | 33 | 73 | 44 |
| 10... | 61 | 30 | 53 | 39 | 57 | 43 | 65 | 31 | 50 | 24 | 51 | 41 | 57 | 33 | 55 | 36 | 56 | 36 | 78 | 31 | 55 | 37 | 63 | 35 | 62 | 33 | 72 | 38 | |
| 11... | 60 | 30 | 39 | 23 | 40 | 30 | 45 | 31 | 44 | 14 | 57 | 31 | 40 | 24 | 47 | 28 | 47 | 34 | 76 | 32 | 46 | 21 | 47 | 33 | 42 | 21 | 41 | 18 | |
| 12... | 56 | 23 | 60 | 23 | 62 | 13 | 60 | 23 | 42 | 18 | 63 | 26 | 52 | 18 | 61 | 23 | 54 | 20 | 79 | 32 | 47 | 16 | 63 | 28 | 53 | 21 | 40 | 10 | |
| 13... | 63 | 30 | 67 | 40 | 76 | 22 | 74 | 33 | 48 | 22 | 64 | 32 | 67 | 35 | 61 | 44 | 73 | 28 | 73 | 33 | 71 | 24 | 67 | 45 | 64 | 32 | 76 | 18 | |
| 14... | 68 | 34 | 68 | 38 | 73 | 30 | 74 | 32 | 52 | 27 | 60 | 34 | 64 | 30 | 63 | 39 | 70 | 44 | 80 | 31 | 62 | 33 | 64 | 35 | 60 | 29 | 70 | 29 | |
| 15... | 66 | 29 | 66 | 32 | 68 | 24 | 65 | 30 | 54 | 30 | 66 | 32 | 60 | 26 | 62 | 32 | 60 | 24 | 80 | 33 | 56 | 26 | 57 | 35 | 56 | 24 | 67 | 24 | |
| 16... | 67 | 30 | 56 | 30 | 62 | 23 | 62 | 34 | 60 | 28 | 71 | 31 | 63 | 23 | 64 | 29 | 56 | 24 | 75 | 31 | 54 | 22 | 61 | 32 | 63 | 30 | 51 | 20 | |
| 17... | 65 | 25 | 51 | 27 | 59 | 30 | 55 | 28 | 55 | 24 | 71 | 31 | 48 | 34 | 45 | 23 | 44 | 28 | 76 | 30 | 45 | 31 | 46 | 35 | 50 | 30 | 43 | 31 | |
| 18... | 56 | 22 | 48 | 23 | 60 | 18 | 57 | 23 | 64 | 30 | 66 | 23 | 60 | 20 | 61 | 25 | 56 | 20 | 75 | 31 | 56 | 24 | 62 | 28 | 51 | 25 | 64 | 25 | |
| 19... | 60 | 23 | 62 | 26 | 71 | 21 | 65 | 31 | 65 | 35 | 65 | 31 | 56 | 23 | 59 | 35 | 60 | 25 | 73 | 34 | 56 | 25 | 58 | 36 | 52 | 30 | 53 | 24 | |
| 20... | 63 | 29 | 58 | 34 | 68 | 24 | 55 | 32 | 60 | 30 | 62 | 33 | 57 | 29 | 45 | 33 | 62 | 28 | 75 | 28 | 55 | 36 | 54 | 34 | 55 | 33 | 52 | 35 | |
| 21... | 63 | 27 | 66 | 32 | 69 | 20 | 63 | 23 | 70 | 29 | 58 | 27 | 70 | 24 | 50 | 30 | 62 | 24 | 74 | 23 | 60 | 28 | 56 | 31 | 62 | 30 | 63 | 25 | |
| 22... | 64 | 30 | 54 | 28 | 59 | 35 | 57 | 23 | 55 | 35 | 60 | 28 | 57 | 35 | 50 | 21 | 62 | 26 | 72 | 25 | 56 | 33 | 68 | 32 | 67 | 33 | 63 | 25 | |
| 23... | 60 | 24 | 67 | 28 | 49 | 16 | 65 | 24 | 69 | 29 | 62 | 25 | 67 | 20 | 59 | 20 | 66 | 22 | 74 | 28 | 58 | 30 | 57 | 34 | 63 | 32 | 52 | 26 | |
| 24... | 61 | 22 | 65 | 31 | 71 | 25 | 62 | 27 | 61 | 40 | 58 | 28 | 68 | 28 | 51 | 33 | 59 | 24 | 79 | 33 | 61 | 39 | 57 | 42 | 60 | 29 | 57 | 25 | |
| 25... | 60 | 24 | 68 | 25 | 73 | 13 | 68 | 19 | 68 | 29 | 52 | 22 | 71 | 20 | 55 | 31 | 36 | 27 | 76 | 31 | 56 | 35 | 60 | 29 | 59 | 28 | 58 | 28 | |
| Mns | 63.7 | 29.5 | 61.0 | 31.9 | 67.7 | 28.3 | 62.3 | 27.7 | 61.0 ^a | 31.5 ^a | 63.3 | 32.0 | 62.8 | 28.5 | 54.3 | 30.0 | 62.1 ^a | 28.4 | 72.5 | 30.5 | 59.3 | 31.9 | 57.1 | 35.3 | 69.8 ^b | 31.3 ^b | 58.5 | 28.9 | |

| Date | Montana. | | | | | | North Dakota. | | | | | | South Dakota. | | | | | | Pierre. | | | | | | Rapid City. | | | |
|-------|-------------|------|---------|------|------------------|--------|---------------|------|------------|------|------------|------|---------------|------|-----------|------|--------------|------|---------|------|---------|-------|---------|------|-------------|------|-------------|----|
| | Miles City. | | Poplar. | | Berthold Agency. | | Bismarck. | | Dickinson. | | Jamestown. | | Williston. | | Aberdeen. | | Chamberlain. | | Huron. | | Kadoka. | | Lemmon. | | Pierre. | | Rapid City. | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | | |
| 1... | 68 | 42 | 67 | 40 | 78 | 33 | 71 | 42 | 66 | 62 | 47 | 65 | 42 | 75 | 40 | 82 | 40 | 74 | 53 | 70 | 48 | ..... | 72 | 53 | 66 | 50 | | |
| 2... | 76 | 48 | 78 | 33 | 77 | 35 | 74 | 36 | 73 | 42 | 72 | 34 | 70 | 40 | 79 | 44 | 78 | 42 | 75 | 43 | 76 | 48 | 72 | 44 | 74 | 56 | | |
| 3... | 80 | 50 | 79 | 45 | 88 | 49 | 75 | 37 | 75 | 39 | 66 | 33 | 75 | 41 | 78 | 40 | 80 | 38 | 79 | 41 | 79 | 44 | 80 | 47 | 75 | 46 | | |
| 4... | 83 | 62 | 86 | 50 | 85 | 42 | 84 | 51 | 85 | 51 | 72 | 33 | 86 | 48 | 81 | 43 | 88 | 42 | 80 | 48 | 91 | 52 | 83 | 87 | 83 | 47 | | |
| 5... | 83 | 48 | 83 | 41 | 85 | 40 | 88 | 60 | 80 | 42 | 88 | 27 | 80 | 40 | 90 | 44 | 93 | 54 | 88 | 55 | 91 | 54 | 85 | 93 | 57 | 81 | 55 | |
| 6... | 78 | 50 | 82 | 40 | 70 | 44 | 88 | 48 | 79 | 44 | 80 | 52 | 50 | 50 | 44 | 91 | 56 | 90 | 51 | 88 | 55 | 93 | 49 | 85 | 49 | 82 | 52 | |
| 7... | 54 | 50 | 76 | 40 | 55 | 37 | 65 | 45 | 68 | 30 | 58 | 28 | 67 | 21 | 61 | 59 | 88 | 38 | 76 | 49 | 71 | 47 | 68 | 39 | 73 | 44 | | |
| 8... | 55 | 39 | 57 | 28 | 52 | 35 | 51 | 33 | 62 | 37 | 55 | 23 | 55 | 48 | 81 | 48 | 51 | 40 | 55 | 36 | 53 | 46 | 50 | 36 | 53 | 46 | | |
| 9... | 70 | 29 | 67 | 21 | 80 | 20 | 55 | 23 | 61 | 24 | 55 | 25 | 63 | 18 | 48 | 40 | 74 | 41 | 47 | 40 | 55 | 37 | 55 | 33 | 62 | 45 | | |
| 10... | 52 | 43 | 58 | 38 | 60 | 30 | 58 | 29 | 54 | 30 | 54 | 25 | 54 | 30 | 60 | 36 | 61 | 33 | 58 | 38 | 44 | 20 | 55 | 34 | 63 | 36 | 57 | |
| 11... | 45 | 26 | 43 | 17 | 50 | 25 | 33 | 23 | 44 | 21 | 47 | 13 | 30 | 18 | 35 | 30 | 56 | 26 | 39 | 27 | 38 | 22 | 48 | 22 | 46 | 29 | 36 | 22 |
| 12... | 44 | 14 | 35 | 4 | 36 | 27 | 13 | 28 | 18 | 31 | 9 | 27 | 11 | 37 | 21 | 35 | 24 | 38 | 20 | 30 | 17 | 55 | 21 | 38 | 19 | 37 | 14 | |
| 13... | 52 | 25 | 49 | 11 | 45 | 4 | 8 | 46 | 15 | 39 | 5 | 43 | 6 | 44 | 10 | 35 | 24 | 38 | 14 | 55 | 32 | 47 | 11 | 47 | 17 | 60 | 23 | |
| 14... | 62 | 40 | 58 | 20 | 51 | 29 | 49 | 26 | 51 | 24 | 40 | 13 | 53 | 23 | 52 | 15 | 87 | 16 | 52 | 31 | 62 | 36 | 53 | 31 | 58 | 33 | 62 | 45 |
| 15... | 59 | 28 | 57 | 24 | 56 | 32 | 55 | 25 | 55 | 17 | 54 | 28 | 58 | 28 | 63 | 32 | 59 | 34 | 61 | 31 | 51 | 25 | 63 | 40 | 59 | 33 | | |
| 16... | 60 | 29 | 53 | 18 | 54 | 31</td | | | | | | | | | | | | | | | | | | | | | | |

MONTHLY WEATHER REVIEW.

OCTOBER, 1909

TABLE 3.—Maximum and minimum temperatures at selected stations, October, 1909. District No. 6—Continued.

| Date | South Dakota. | | | | | | Colorado. | | | | | | Nebraska. | | | | | | | | | | | | North Platte. | | | Oakdale. | | | |
|-------|---------------|------|------------|------|----------|------|-----------|------|-------|------|-------|------|-----------|-------------|------|------|---------------|-------|-------|--------------|------|------|---------|------|---------------|----------|------|----------|---------------|------|--|
| | Sioux Falls. | | Watertown. | | Yankton. | | Denver. | | Wray. | | Alma. | | | Bridgeport. | | | Grand Island. | | | Hay Springs. | | | Hebron. | | | Lincoln. | | | North Platte. | | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | |
| 1... | 82 | 47 | 74 | 49 | 78 | 51 | 74 | 47 | 83 | 45 | 87 | 47 | 87 | 42 | 84 | 51 | 70 | 54 | ..... | ..... | 85 | 52 | 84 | 49 | 79 | 47 | 80 | 53 | | | |
| 2... | 85 | 46 | 74 | 40 | 84 | 51 | 78 | 44 | 87 | 38 | 89 | 53 | 85 | 36 | 88 | 53 | 81 | 37 | ..... | ..... | 90 | 56 | 87 | 40 | 82 | 43 | 89 | 58 | | | |
| 3... | 80 | 48 | 72 | 45 | 80 | 51 | 73 | 47 | 88 | 43 | 89 | 48 | 86 | 36 | 91 | 63 | 86 | 38 | ..... | ..... | 91 | 54 | 88 | 47 | 80 | 48 | 86 | 60 | | | |
| 4... | 84 | 50 | 79 | 46 | 79 | 52 | 75 | 51 | 88 | 46 | 86 | 53 | 85 | 40 | 89 | 48 | 85 | 47 | ..... | ..... | 89 | 50 | 87 | 50 | 81 | 46 | 83 | 57 | | | |
| 5... | 87 | 53 | 86 | 52 | 89 | 57 | 79 | 51 | 87 | 52 | 87 | 53 | 85 | 45 | 88 | 51 | 89 | 43 | ..... | ..... | 89 | 56 | 88 | 56 | 86 | 47 | 84 | 59 | | | |
| 6... | 85 | 55 | 84 | 55 | 86 | 58 | 73 | 50 | 84 | 45 | 84 | 54 | 75 | 45 | 86 | 52 | 83 | 40 | ..... | ..... | 87 | 59 | 85 | 51 | 83 | 47 | 85 | 60 | | | |
| 7... | 83 | 57 | 77 | 53 | 81 | 55 | 64 | 35 | 70 | 48 | 80 | 56 | 65 | 40 | 78 | 56 | 65 | 38 | ..... | ..... | 85 | 64 | 72 | 44 | 77 | 51 | 83 | 62 | | | |
| 8... | 75 | 46 | 67 | 47 | 55 | 45 | 43 | 31 | 59 | 37 | 60 | 45 | 67 | 34 | 53 | 42 | 47 | 35 | ..... | ..... | 66 | 47 | 46 | 40 | 55 | 42 | 72 | 48 | | | |
| 9... | 50 | 45 | 42 | 48 | 40 | 59 | 28 | 56 | 38 | 48 | 38 | 60 | 26 | 48 | 40 | 52 | 27 | ..... | ..... | 49 | 43 | 50 | 41 | 42 | 38 | 51 | 45 | | | | |
| 10... | 50 | 29 | 42 | 42 | 57 | 42 | 64 | 45 | 63 | 35 | 63 | 38 | 60 | 30 | 52 | 38 | 57 | 29 | ..... | ..... | 54 | 43 | 66 | 33 | 57 | 39 | 52 | 45 | | | |
| 11... | 40 | 26 | 25 | 44 | 28 | 45 | 26 | 53 | 31 | 48 | 36 | 53 | 30 | 44 | 40 | 42 | 20 | ..... | ..... | 48 | 29 | 48 | 19 | 42 | 25 | 47 | 30 | | | | |
| 12... | 35 | 21 | 34 | 21 | 34 | 21 | 55 | 29 | 59 | 22 | 53 | 21 | 52 | 15 | 46 | 20 | 46 | 10 | ..... | ..... | 42 | 21 | 53 | 12 | 37 | 20 | 38 | 26 | | | |
| 13... | 40 | 13 | 38 | 15 | 43 | 18 | 74 | 38 | 74 | 31 | 58 | 28 | 70 | 26 | 50 | 24 | 62 | 27 | ..... | ..... | 48 | 25 | 68 | 26 | 46 | 18 | 43 | 26 | | | |
| 14... | 55 | 23 | 42 | 26 | 56 | 30 | 75 | 52 | 72 | 41 | 71 | 34 | 74 | 30 | 55 | 24 | 65 | 39 | ..... | ..... | 61 | 36 | 70 | 38 | 57 | 31 | 56 | 36 | | | |
| 15... | 55 | 30 | 55 | 30 | 62 | 37 | 73 | 36 | 68 | 30 | 70 | 32 | 75 | 28 | 66 | 35 | 67 | 28 | ..... | ..... | 64 | 36 | 68 | 31 | 61 | 31 | 61 | 38 | | | |
| 16... | 54 | 27 | 50 | 23 | 56 | 30 | 60 | 39 | 62 | 29 | 57 | 33 | 60 | 30 | 60 | 34 | 61 | 24 | ..... | ..... | 60 | 34 | 58 | 34 | 56 | 26 | 59 | 37 | | | |
| 17... | 55 | 26 | 40 | 23 | 56 | 36 | 58 | 27 | 64 | 29 | 65 | 40 | 60 | 33 | 50 | 32 | 52 | 28 | ..... | ..... | 52 | 47 | 64 | 34 | 58 | 36 | 50 | 42 | | | |
| 18... | 58 | 27 | 48 | 20 | 50 | 33 | 52 | 28 | 51 | 26 | 56 | 34 | 62 | 34 | 50 | 30 | 48 | 28 | ..... | ..... | 53 | 33 | 53 | 31 | 48 | 30 | 51 | 34 | | | |
| 19... | 56 | 26 | 53 | 25 | 53 | 27 | 61 | 31 | 53 | 30 | 42 | 27 | 66 | 30 | 48 | 30 | 60 | 28 | ..... | ..... | 50 | 28 | 46 | 28 | 52 | 20 | 53 | 34 | | | |
| 20... | 62 | 28 | 51 | 40 | 58 | 43 | 73 | 37 | 77 | 36 | 63 | 40 | 70 | 21 | 60 | 36 | 70 | 30 | ..... | ..... | 55 | 43 | 77 | 37 | 56 | 42 | 53 | 44 | | | |
| 21... | 60 | 34 | 53 | 38 | 67 | 42 | 74 | 40 | 73 | 30 | 75 | 29 | 72 | 20 | 50 | 40 | 70 | 21 | ..... | ..... | 74 | 41 | 73 | 27 | 69 | 35 | 72 | 48 | | | |
| 22... | 65 | 45 | 52 | 32 | 66 | 46 | 73 | 35 | 70 | 29 | 69 | 35 | 72 | 22 | 63 | 30 | 60 | 35 | ..... | ..... | 61 | 37 | 61 | 33 | 52 | 36 | 51 | 36 | | | |
| 23... | 55 | 30 | 40 | 33 | 42 | 34 | 70 | 29 | 69 | 35 | 62 | 28 | 72 | 19 | 55 | 55 | 65 | 18 | ..... | ..... | 47 | 35 | 65 | 29 | 45 | 30 | 42 | 37 | | | |
| 24... | 52 | 32 | 49 | 32 | 64 | 33 | 74 | 38 | 78 | 32 | 70 | 35 | 76 | 20 | 70 | 53 | 65 | 33 | ..... | ..... | 64 | 30 | 78 | 34 | 65 | 28 | 59 | 35 | | | |
| 25... | 50 | 30 | 57 | 30 | 63 | 37 | 75 | 30 | 68 | 26 | 72 | 35 | 73 | 19 | 66 | 30 | 70 | 24 | ..... | ..... | 66 | 39 | 65 | 28 | 62 | 32 | 64 | 42 | | | |
| Mns | 61.9 | 35.4 | 56.6° | 34.5 | 60.9 | 39.0 | 67.1 | 37.8 | 69.6 | 34.8 | 68.3 | 38.1 | 72.3 | 30.1 | 64.3 | 39.3 | 64.9 | 30.5 | ..... | ..... | 66.0 | 41.8 | 67.4 | 35.5 | 60.9 | 35.6 | 63.2 | 43.9 | | | |

| Date | Iowa. | | | | | | Kansas. | | | | | | Missouri. | | | | | | Missouri. | | | | | | Missouri. | | | |
|-------|------------------|------|------------|------|---------|-------|-------------|------|--------|------|------------|------|-----------|------|---------|------|--------|------|-----------|------|--------------|------|------------|------|-------------|------|------|------|
| | Valentine, Nebr. | | Clarendon. | | Sibley. | | Sioux City. | | Colby. | | Concordia. | | Salina. | | Topeka. | | Wamey. | | Columbia. | | Kansas City. | | St. Louis. | | Unionville. | | | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1... | 72 | 51 | 80 | 42 | 78 | 41 | 77 | 52 | 86 | 48 | 88 | 49 | 95 | 53 | 85 | 51 | 87 | 47 | 80 | 44 | 82 | 54 | 72 | 51 | 80 | 44 | 84 | 44 |
| 2... | 78 | 47 | 91 | 44 | 81 | 48 | 87 | 50 | 90 | 46 | 89 | 58 | 96 | 48 | 91 | 56 | 89 | 53 | 90 | 51 | 89 | 62 | 81 | 57 | 90 | 50 | 88 | 55 |
| 3... | 80 | 46 | 91 | 47 | 77 | 52 | 79 | 51 | 87 | 50 | 90 | 54 | 90 | 53 | 90 | 57 | 88 | 53 | 90 | 53 | 89 | 66 | 87 | 64 | 98 | 55 | 88 | 55 |
| 4... | 80 | 47 | 86 | 50 | 77 | 48 | 79 | 52 | 88 | 50 | 88 | 54 | 90 | 51 | 90 | 57 | 88 | 52 | 87 | 53 | 83 | 65 | 81 | 78 | 49 | 83 | 50 | |
| 5... | 88 | 58 | 82 | 52 | ..... | 49 | 83 | 59 | 86 | 52 | 88 | 55 | 94 | 45 | 88 | 57 | 86 | 54 | 81 | 54 | 83 | 76 | 55 | 81 | 50 | 80 | 50 | |
| 6... | 88 | 55 | 87 | 52 | 84 | ..... | 84 | 58 | 84 | 51 | 87 | 56 | 93 | 46 | 89 | 57 | 85 | 51 | 82 | 55 | 77 | 53 | 83 | 53 | 83 | 52 | 83 | 52 |
| 7... | 69 | 42 | 86 | 53 | 52 | 51 | 82 | 58 | 73 | 53 | 82 | 60 | 86 | 45 | 86 | 59 | 78 | 58 | 84 | 57 | 84 | 63 | 81 | 57 | 84 | 50 | 84 | 50 |
| 8... | 47 | 43 | 79 | 52 | 62 | 52 | 72 | 48 | 80 | 35 | 60 | 45 | 78 | 45 | 80 | 34 | 80 | 30 | 85 | 57 | 84 | 60 | 80 | 59 | 82 | 58 | 81 | 55 |
| 9... | 49 | 37 | 56 | 49 | 57 | 48 | 49 | 43 | 55 | 39 | 47 | 40 | 50 | 42 | 54 | 43 | 48 | 40 | 70 | 50 | 62 | 46 | 71 | 55 | 68 | 56 | 66 | 56 |
| 10... | 60 | 31 | 50 | 44 | ..... | 45 | 52 | 44 | 70 | 35 | 61 | 41 | 63 | 39 | 51 | 41 | 69 | 38 | 50 | 44 | 50 | 55 | 62 | 43 | 60 | 46 | 50 | 46 |
| 11... | 44 | 16 | 40 | 38 | ..... | 34 | 45 | 28 | 60 | 29 | 52 | 29 | 50 | 42 | 48 | 31 | 61 | 36 | 51 | 34 | 47 | 33 | 52 | 37 | 46 | 40 | 40 | 40 |
| 12... | 38 | 10 | 46 | 20 | ..... | 22 | 33 | 22 | 57 | 19 | 51 | 25 | 55 | 24 | 48 | 27 | 57 | 19 | 42 | 26 | 47 | 28 | 42 | 33 | 38 | 25 | 42 | 32 |
| 13... | 55 | 22 | 50 | 24 | 40 | 14 | 41 | 17 | 77 | 30 | 51 | 33 | 52 | 33 | 59 | 34 | 73 | 30 | 57 | 25 | 57 | 34 | 60 | 33 | 45 | 22 | 57 | 45 |
| 14... | 62 | 37 | 53 | 27 | 49 | 15 | 54 | 29 | 74 | 45 | 70 | 40 | 74 | 38 | 67 | 40 | 75 | 39 | 62 | 29 | 63 | 38 | 54 | 37 | 50 | 26 | 62 | 43 |
| 15... | 61 | 31 | 64 | 32 | 58 | 29 | 61 | 37 | 72 | 44 | 68 | 44 | 72 | 37 | 67 | | | | | | | | | | | | | |